



# North Carolina State Laboratory of Public Health

## Environmental Sciences

### Inorganic Chemistry

#### Certificate of Analysis

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MSC 1918  
Raleigh, NC 27699-1918

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**FINAL REPORT**

Report to: **M Osborne**

Name of System:

**HARNETT CO ENVIRONMENTAL HEALTH**

**Duane Knight**

**307 CORNELIUS HARNETT BLVD**

**580 Brookgreen Ln**

**LILLINGTON, NC 27546**

**Cameron, NC 28326**

EIN: 566000306EH

Delivery: NC Courier

StarLiMS ID: **ES240627-0017**

Date Collected: 06/26/2024

Time Collected: 10:45

By:

Date Received: 06/27/2024

Time Received: 07:42

Sample Type: Raw

Sampling Point: Well sample tap

Well Permit No.

SFD2303-0035

Sample Source: New Well

Receipt Temp. : 8.5 °C

GPS Number:

Comment: Nitrate/nitrite sample thermal preservation was initiated, but was not at a temp of 4.0°C upon receipt by the laboratory.

Profile: New Well I

Analyte	Test Result	Allowable Limit	Unit	Qualifier(s)
Arsenic	0.003	0.010	mg/L	
Barium	0.154	2.0	mg/L	
Cadmium	<0.0005	0.005	mg/L	
Calcium	17		mg/L	
Chloride	13.5	250	mg/L	
Chromium	<0.02	0.10	mg/L	
Copper	0.012	1.3	mg/L	
Fluoride	0.241	4.00	mg/L	
Iron	<0.06	0.300	mg/L	
Lead	<0.003	0.015	mg/L	
Magnesium	4		mg/L	
Manganese	0.019	0.05	mg/L	
Mercury	<0.0004	0.002	mg/L	
Nickel	<0.01	0.1	mg/L	
Nitrate	<1	10.0	mg/L	
Nitrite	<0.1	1.00	mg/L	
pH	8.2		N/A	
Selenium	<0.005	0.05	mg/L	
Silver	<0.01	0.10	mg/L	
Sodium	34.7		mg/L	
Sulfate	13.4	250	mg/L	
Total Alkalinity	90		mg/L	
Total Hardness	60		mg/L	
Zinc	<0.05	5.0	mg/L	

Report Date: 07/16/2024

Reported By:

Marc Komlos



NC DEPARTMENT OF  
HEALTH AND HUMAN SERVICES  
Division of Public Health

# Private Well Information and Use Recommendations

## For Inorganic Chemical Contaminants

County: Harriet

Sample Name: Duane Knight

Sample ID #: ES240627-0017

Reviewer: Maude Osborne REH

### TEST RESULTS AND USE RECOMMENDATIONS

1.  Your well water meets federal drinking water standards *for inorganic chemicals*. Your water can be used for drinking, cooking, washing, cleaning, bathing, and showering based on the *inorganic chemical results only*. You may have other water sampling results that are not taken into account in this report.

2.  The following substance(s) exceeded federal drinking water standards or the North Carolina 2L calculated health levels. The North Carolina Division of Public Health recommends that your well water not be used for drinking and cooking unless you install a water treatment system to remove the checked substance(s). However, it may be used for washing, cleaning, bathing, and showering based on the *inorganic chemical results only*.

- |                                  |                                    |                                  |                                   |  |                                   |                                 |
|----------------------------------|------------------------------------|----------------------------------|-----------------------------------|--|-----------------------------------|---------------------------------|
| <input type="checkbox"/> Arsenic | <input type="checkbox"/> Barium    | <input type="checkbox"/> Cadmium | <input type="checkbox"/> Chromium | <input type="checkbox"/> Copper          | <input type="checkbox"/> Fluoride | <input type="checkbox"/> Iron   |
| <input type="checkbox"/> Lead    | <input type="checkbox"/> Manganese | <input type="checkbox"/> Mercury | <input type="checkbox"/> Nickel   | <input type="checkbox"/> Nitrate/Nitrite | <input type="checkbox"/> Selenium | <input type="checkbox"/> Silver |
| <input type="checkbox"/> Zinc    |                                    |                                  |                                   |  |                                   |                                 |

3.  While your lead levels do not exceed federal or state standards, the North Carolina Division of Public Health has concerns with any detection of lead. Should you have any questions please contact the NC Private Well and Health Program at (919) 707 - 5900.

4.  Re-sample for lead and /or copper. Take a first draw and 30-second flush sample inside the house (preferably the kitchen sink) and a first draw and 4 minutes flush sample at the wellhead to determine the source of the lead and/ or copper.

5.  The following substance(s) exceeded aesthetic drinking water standards. Your water can be used for drinking, cooking, washing, cleaning, bathing, and showering based on the *inorganic chemical results only*, 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.

- |                                   |                                 |                                   |                               |                                    |
|-----------------------------------|---------------------------------|-----------------------------------|-------------------------------|------------------------------------|
| <input type="checkbox"/> Chloride | <input type="checkbox"/> Copper | <input type="checkbox"/> Fluoride | <input type="checkbox"/> Iron | <input type="checkbox"/> Manganese |
| <input type="checkbox"/> pH       | <input type="checkbox"/> Silver | <input type="checkbox"/> Sulfate  | <input type="checkbox"/> Zinc |                                    |

6.  a. Sodium levels exceed the U.S. Environmental Protection Agency's (USEPA) Health Advisory level for sodium of 20 mg/l. The North Carolina Division of Public Health recommends that only individuals on no or low sodium-restricted diets not use this water for drinking or cooking. It may be used for washing, cleaning, bathing, and showering based on the *inorganic chemical results only*.

b. Your sodium level exceeds 30 mg/L and may pose aesthetic issues such as bad taste, odor, staining of porcelain, etc.

7.  Re-sampling is recommended in \_\_\_\_\_ months, to reinvestigate \_\_\_\_\_.