



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

4312 District Drive  
 MSC 1918  
 Raleigh, NC 27699-1918

<http://slph.ncpublichealth.com>  
 Phone: 919-733-7308  
 Fax: 919-715-8611

**FINAL REPORT**

Report to: **M Osborne**

Name of System:

**HARNETT CO ENVIRONMENTAL HEALTH**  
 307 CORNELIUS HARNETT BLVD  
 LILLINGTON, NC 27546

**James Callahan**  
 806 Susie Cir  
 Cameron, NC 28326

EIN: 566000306EH

Delivery: NC Courier

StarLIMS ID: **ES240221-0069**

Date Collected: 02/20/2024

Time Collected: 11:35

By: M Osborne

Date Received: 02/21/2024

Time Received: 08:33

Sample Type: Raw

Sampling Point: Threadless tap

Well Permit No.

Sample Source: Well water

Receipt Temp. :

GPS Number:

Profile: Inorganic Chemical + Metals I

Analyte	Test Result	Allowable Limit	Unit	Qualifier(s)
Arsenic	<0.001	0.010	mg/L	
Barium	0.171	2.0	mg/L	
Cadmium	<0.0005	0.005	mg/L	
Calcium	11		mg/L	
Chloride	<5	250	mg/L	
Chromium	<0.02	0.10	mg/L	
Copper	<0.01	1.3	mg/L	
Fluoride	0.217	4.00	mg/L	
Iron	0.092	0.300	mg/L	
Lead	<0.003	0.015	mg/L	
Magnesium	4		mg/L	
Manganese	0.148	0.05	mg/L	
Mercury	<0.0004	0.002	mg/L	
Nickel	<0.01	0.1	mg/L	
pH	7.9		N/A	
Selenium	<0.005	0.05	mg/L	
Silver	<0.01	0.10	mg/L	
Sodium	10.2		mg/L	
Sulfate	10.8	250	mg/L	
Total Alkalinity	61		mg/L	
Total Hardness	43		mg/L	
Zinc	<0.05	5.0	mg/L	

Report Date: 03/19/2024

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: Harris

Sample Name: James Callahan

Sample ID #: ES240221-0069

Reviewer: Mark Osborne RETH

### TEST RESULTS AND USE RECOMMENDATIONS

- 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.
- 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						
- 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.
- 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.
- 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 checked="" type="checkbox"/> Manganese
<input type="checkbox"/> pH	<input type="checkbox"/> Silver	<input type="checkbox"/> Sulfate	<input type="checkbox"/> Zinc	
- 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.
- Re-sampling is recommended in \_\_\_\_\_ months, to reinvestigate \_\_\_\_\_.

For more information regarding your well water results, please call the North Carolina Division of Public Health at 919-707-5900.