



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

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**Certificate of Analysis**

**FINAL REPORT**

**Report to: ANDREW CURRIN**

**Name of System:**

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

**Signature Homes Bldg**  
 212 Hobson Rd  
 Dunn, NC 28334

**EIN: 566000306EH**

**Delivery: NC Courier**

StarLiMS ID: **ES210330-0011**

Date Collected: 03/29/2021

Time Collected: 11:00

By: Andrew Currin

Date Received: 03/30/2021

Time Received: 07:39

Sample Type: Raw

Sampling Point: Well head

Well Permit No.

SFD2009-0022

Sample Source: New Well

Receipt Temp.: 2.0 °C

GPS Number:

**Profile: New Well I**

| Analyte          | Test Result | Allowable Limit | Unit | Qualifier(s) |
|------------------|-------------|-----------------|------|--------------|
| Arsenic          | <0.001      | 0.010           | mg/L |              |
| Barium           | <0.1        | 2.0             | mg/L |              |
| Cadmium          | <0.001      | 0.005           | mg/L |              |
| Calcium          | 5           |                 | mg/L |              |
| Chloride         | 7.2         | 250             | mg/L |              |
| Chromium         | 0.001       | 0.10            | mg/L |              |
| Copper           | 0.03        | 1.3             | mg/L |              |
| Fluoride         | <0.1        | 4.00            | mg/L |              |
| Iron             | 1.92        | 0.30            | mg/L |              |
| Lead             | <0.003      | 0.015           | mg/L |              |
| Magnesium        | 2           |                 | mg/L |              |
| Manganese        | 0.02        | 0.05            | mg/L |              |
| Mercury          | <0.0004     | 0.002           | mg/L |              |
| Nitrate          | 5.66        | 10.0            | mg/L |              |
| Nitrite          | <0.1        | 1.00            | mg/L |              |
| pH               | 5.2         |                 | N/A  |              |
| Selenium         | <0.005      | 0.05            | mg/L |              |
| Silver           | <0.01       | 0.10            | mg/L |              |
| Sodium           | 1.1         |                 | mg/L |              |
| Sulfate          | <5          | 250             | mg/L |              |
| Total Alkalinity | 1           |                 | mg/L |              |
| Total Hardness   | 21          |                 | mg/L |              |
| Zinc             | 0.10        | 5.0             | mg/L |              |

**Report Date:** 04/09/2021

**Reported By:**

**Marc Komlos**



# Private Well Information and Use Recommendations

## For Inorganic Chemical Contaminants

County: HANCOCK

Name: SIGNATURE HOME BLDG

212 HOBSON RD DUNDON, NC 28334

Sample ID #: ES2100330-001

Reviewer: ANDREW WARRIN, NCHS

### 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 circled substance(s). However, it may be used for washing, cleaning, bathing and showering based on the *inorganic chemical results only*.

|           |         |                 |          |        |           |      |      |  |
|-----------|---------|-----------------|----------|--------|-----------|------|------|--|
| Arsenic   | Barium  | Cadmium         | Chromium | Copper | Fluoride  | Lead | Iron |  |
| Manganese | Mercury | Nitrate/Nitrite | Selenium | Silver | Magnesium | Zinc | pH   |  |

3.  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. Levels over 30 mg/l may pose aesthetic problems such as bad taste, odor, staining of porcelain, etc.

4.  Re-sampling is recommended in \_\_\_\_\_ months.
5.  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.
6.  The following substance(s) exceeded federal 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.

|           |          |          |          |             |           |
|-----------|----------|----------|----------|-------------|-----------|
| Barium    | Cadmium  | Chromium | Fluoride | <u>Iron</u> | Magnesium |
| Manganese | Selenium | Silver   | pH       | Zinc        |           |

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