



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
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FINAL REPORT

Report to: M Osborne

Name of System:

HARNETT CO ENVIRONMENTAL HEALTH

Kim Galbreath

307 CORNELIUS HARNETT BLVD

414 Mill House Ln

LILLINGTON, NC 27546

Spring Lake, NC 28390

EIN: 566000306EH

Delivery: NC Courier

StarLiMS ID: ES250508-0044

Date Collected: 05/07/2025

Time Collected: 14:20

By: M. Osborne

Date Received: 05/08/2025

Time Received: 07:46

Sample Type: Raw

Sampling Point: Outside 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 | 0.364 | 2.0 | mg/L | |
| Cadmium | <0.0005 | 0.005 | mg/L | |
| Calcium | 24 | | mg/L | |
| Chloride | <5 | 250 | mg/L | |
| Chromium | <0.02 | 0.10 | mg/L | |
| Copper | <0.01 | 1.3 | mg/L | |
| Fluoride | 0.296 | 4.00 | mg/L | |
| Iron | 0.061 | 0.300 | mg/L | |
| Lead | <0.003 | 0.015 | mg/L | |
| Magnesium | 3 | | mg/L | |
| Manganese | 0.051 | 0.05 | mg/L | |
| Mercury | <0.0004 | 0.002 | mg/L | |
| Nickel | <0.01 | 0.1 | mg/L | |
| pH | 8.2 | | N/A | |
| Selenium | <0.005 | 0.05 | mg/L | |
| Silver | <0.01 | 0.10 | mg/L | |
| Sodium | 17.0 | | mg/L | |
| Sulfate | 5.4 | 250 | mg/L | |
| Total Alkalinity | 102 | | mg/L | |
| Total Hardness | 71 | | mg/L | |
| Zinc | <0.05 | 5.0 | mg/L | |

Report Date: 05/30/2025

Reported By:

Marc Komlos



Private Well Information and Use Recommendations

For Inorganic Chemical Contaminants

County: WakeName: Kim GalbreathSample ID #: ES250508-0044Reviewer: Mark Ashburn REHS

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 | Iron | 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.