



North Carolina State Laboratory of Public Health
Environmental Sciences
Inorganic Chemistry

4312 District Drive
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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 Home Blds
 1691 Main Street
 Buies Creek, NC 27506

EIN: 566000306EH

Delivery: NC Courier

StarLiMS ID: **ES200716-0023**

Date Collected: 07/15/2020

Time Collected: 15:45

By: Andrew Currin

Date Received: 07/16/2020

Time Received: 07:32

Sample Type: Raw

Sampling Point: Well head

Well Permit No. SFD2001-0025

Sample Source: New Well

Receipt Temp.: 5.0 °C

GPS Number:

Profile: New Well I

| Analyte | Test Result | Allowable Limit | Unit | Qualifier(s) |
|------------------|-------------|-----------------|------|--------------|
| Arsenic | 0.001 | 0.010 | mg/L | |
| Barium | 0.43 | 2.0 | mg/L | |
| Cadmium | <0.001 | 0.005 | mg/L | |
| Calcium | 4 | | mg/L | |
| Chloride | <5 | 250 | mg/L | |
| Chromium | <0.01 | 0.10 | mg/L | |
| Copper | 0.29 | 1.3 | mg/L | |
| Fluoride | 0.11 | 4 | mg/L | |
| Iron | 0.75 | 0.30 | mg/L | |
| Lead | 0.007 | 0.015 | mg/L | |
| Magnesium | 2 | | mg/L | |
| Manganese | 0.85 | 0.05 | mg/L | |
| Mercury | <0.0005 | 0.002 | mg/L | |
| Nitrate | <1 | 10.0 | mg/L | |
| Nitrite | <0.1 | 1.00 | mg/L | |
| pH | 4.3 | | N/A | |
| Selenium | <0.005 | 0.05 | mg/L | |
| Silver | <0.01 | 0.10 | mg/L | |
| Sodium | 6.9 | | mg/L | |
| Sulfate | 35.1 | 250 | mg/L | |
| Total Alkalinity | <1 | | mg/L | |
| Total Hardness | 18 | | mg/L | |
| Zinc | 0.68 | 5.00 | mg/L | |

Report Date: 07/27/2020

Reported By:

Marc Komlos



Private Well Information and Use Recommendations

For Inorganic Chemical Contaminants

County: HAWKETT

Name: SIGNATURE HOME BLDG

1691 MAIN ST. BUJES CREEK

Sample ID #: ES200716-0023

Reviewer: ANDREW CURRIN, REHS

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 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 | |

0.3 mg/L MAX USEPA HEALTH ADVISORY
0.05 mg/L MAX SECONDARY (AESTHETIC) CONTAMINANT

- 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.
THE ENVIRONMENTAL PROTECTION AGENCY (EPA) CONSIDERS IRON AS
A SECONDARY CONTAMINANT AT THIS LEVEL WHICH MEANS IT
DOES NOT HAVE A DIRECT IMPACT ON HEALTH