



# 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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Phone: 919-733-7308  
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**FINAL REPORT**

Report to: James E Manhart III

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

Name of System:

**Joseph & Suzanne Langley**  
282 Kirk Adams Rd.  
Angier, NC 27501

EIN: 566000306EH

Delivery: NC Courier

StarLiMS ID: **ES241120-0014**

Date Collected: 11/18/2024

Time Collected: 10:00

By: James E. Manhart III

Date Received: 11/20/2024

Time Received: 07:48

Sample Type: Raw

Sampling Point: Well head

Well Permit No. EH2202-0006

Sample Source: New Well

Receipt Temp.: 7.0 °C

GPS Number:

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

Profile: New Well I

Analyte	Test Result	Allowable Limit	Unit	Qualifier(s)
Arsenic	0.002	0.010	mg/L	
Barium	0.125	2.0	mg/L	
Cadmium	<0.0005	0.005	mg/L	
Calcium	14		mg/L	
Chloride	13.6	250	mg/L	
Chromium	<0.02	0.10	mg/L	
Copper	<0.01	1.3	mg/L	
Fluoride	0.106	4.00	mg/L	
Iron	2.92	0.300	mg/L	
Lead	<0.003	0.015	mg/L	
Magnesium	5		mg/L	
Manganese	0.162	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	7.2		N/A	
Selenium	<0.005	0.05	mg/L	
Silver	<0.01	0.10	mg/L	
Sodium	10.1		mg/L	
Sulfate	7.3	250	mg/L	
Total Alkalinity	61		mg/L	
Total Hardness	56		mg/L	
Zinc	4.24	5.0	mg/L	

Report Date: 12/06/2024

Reported By:

Marc Komlos



# Private Well Information and Use Recommendations

## For Inorganic Chemical Contaminants

County: HARNETT

Name: Joseph + Suzanne Langley

Sample ID #: ES241120-0014

Reviewer: Mark Komlos / James Marshall / RBKS

### 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		

- 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.
- Re-sampling is recommended in \_\_\_\_\_ months.
- 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.
- 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.