



Wake County Human Services Laboratory

10 Sunnybrook Rd., Raleigh, NC 27610

(919) 250-4437 Certification #37503

WS-126032-2024 3309 Avent Ferry Rd

hcasebolt@wake.gov

Collection Date: 06/18/2024

Collection Time: 01:00 PM

Collection Point: exterior tap

Collected By: Casebolt

Lab Number: 24061804-01

Parameter	Result	Units	Limits for Drinking Water *
Alkalinity			
Alkalinity	178	mg CaCO ₃ /L	No established limit
Coliforms			
E. coli	Absent		Absent
Total coliform	Absent		Absent
Fluoride			
Fluoride	0.66	mg/L	EPA MCL 4 mg/L Secondary 2 mg/L
Hardness			
Hardness	41	mg CaCO ₃ /L	No established limit
Metals			
Calcium	11.2	mg/L	No established limit
Copper	< 0.05	mg/L	EPA MCL 1.3 mg/L Secondary 1 mg/L
Iron	< 0.10	mg/L	Health Advisory 2.5 mg/L Aesthetic 0.3 mg/L
Magnesium	3.27	mg/L	No established limit
Sodium	77.9	mg/L	Health Advisory 20 mg/L
Zinc	< 0.50	mg/L	Recommended 5 mg/L
Mercury	< 0.5000	ug/L	EPA MCL 2 ug/L
Arsenic	< 5.00	ug/L	EPA MCL 10 ug/L
Barium	< 100.0	ug/L	EPA MCL 2000 ug/L
Cadmium	< 1.00	ug/L	EPA MCL 5 ug/L
Chromium	< 10.0	ug/L	EPA MCL 100 ug/L
Lead	< 3.00	ug/L	EPA MCL 15 ug/L
Manganese	< 30	ug/L	Health Advisory 200 ug/L Aesthetic 50 ug/L
Selenium	< 5.00	ug/L	EPA MCL 50 ug/L
Silver	< 10.0	ug/L	Recommended 100 ug/L
Nitrate			
Nitrate	< 1.00	mg/L	EPA MCL 10 mg/L
Nitrite			
Nitrite	< 0.10	mg/L	EPA MCL 1 mg/L



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Parameter	Result	Units	Limits for Drinking Water *
pH			
pH	7.6	SU	Recommended 6.5-8.5

Report Date: 07/02/2024

Submitted By: *Kimberly Trossman*

Kimberly Trossman
Environmental Health Manager

* Limits are EPA Safe Drinking Water Standards and/or North Carolina 2L Standards.



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Lab Number: 24061804-02

Parameter	Result	Units	Limits for Drinking Water *
Pesticides			
alpha-Chlordane	< 0.042	ug/L	EPA MCL 2 µg/L
Dieldrin	< 0.042	ug/L	NC 2L 0.002 µg/L
Endrin	< 0.042	ug/L	EPA MCL 2 µg/L
gamma-Chlordane	< 0.042	ug/L	EPA MCL 2 µg/L
Heptachlor	< 0.042	ug/L	EPA MCL 0.4 µg/L
Heptachlor epoxide	< 0.042	ug/L	EPA MCL 0.2 µg/L
Methoxychlor	< 0.12	ug/L	EPA MCL 40 µg/L
Toxaphene	< 0.42	ug/L	EPA MCL 3 µg/L
VOC's			
1,1,1,2-Tetrachloroethane	< 0.5	ug/L	NC 2L 1 µg/L
1,1,1-Trichloroethane	< 0.5	ug/L	EPA MCL 200 µg/L
1,1,2,2-Tetrachloroethane	< 0.5	ug/L	NC 2L 0.2 µg/L
1,1,2-Trichloroethane	< 0.5	ug/L	EPA MCL 5 µg/L
1,1-Dichloroethane	< 0.5	ug/L	NC 2L 6 µg/L
1,1-Dichloroethylene	< 0.5	ug/L	EPA MCL 7 µg/L
1,2,3-Trichloropropane	< 0.5	ug/L	NC 2L 0.005 µg/L
1,2-Dibromoethane	< 0.5	ug/L	EPA MCL 0.05 µg/L
1,2-Dichloroethane	< 0.5	ug/L	EPA MCL 5 µg/L
1,2-Dichloropropane	< 0.5	ug/L	EPA MCL 5 µg/L
Benzene	< 0.5	ug/L	EPA MCL 5 µg/L
Bromodichloromethane(THM)	< 0.5	ug/L	EPA MCL 80 µg/L (THM)
Bromoform(THM)	< 0.5	ug/L	EPA MCL 80 µg/L (THM)
Bromomethane	< 0.5	ug/L	NC 2L 10 µg/L
Carbon tetrachloride	< 0.5	ug/L	EPA MCL 5 µg/L
Chlorobenzene	< 0.5	ug/L	NC 2L 50 µg/L
Chloroethane	< 0.5	ug/L	NC 2L 3000 µg/L
Chloroform(THM)	< 0.5	ug/L	EPA MCL 80 µg/L (THM)
cis-1,2-Dichloroethylene	< 0.5	ug/L	EPA MCL 70 µg/L
Dibromochloromethane(THM)	< 0.5	ug/L	NC 2L 0.4 µg/L
Dibromomethane	< 0.5	ug/L	NC 2L 0.02 µg/L
Ethylbenzene	< 0.5	ug/L	EPA MCL 700 µg/L
Methyl Chloride	< 0.5	ug/L	NC 2L 3 µg/L



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Methyl tert-Butyl Ether	< 0.5	ug/L	NC 2L 20 µg/L
Methylene Chloride	< 0.5	ug/L	EPA MCL 5 µg/L
o-Dichlorobenzene	< 0.5	ug/L	EPA MCL 600 µg/L
p-Dichlorobenzene	< 0.5	ug/L	EPA MCL 75 µg/L
Styrene	< 0.5	ug/L	EPA MCL 100 µg/L
Tetrachloroethylene	< 0.5	ug/L	EPA MCL 5 µg/L
Toluene	< 0.5	ug/L	EPA MCL 1000 µg/L
Total Xylenes	< 0.5	ug/L	EPA MCL 10000 µg/L
trans-1,2-Dichloroethylene	< 0.5	ug/L	EPA MCL 100 µg/L
trans-1,3-Dichloropropene	< 0.5	ug/L	NC 2L 0.4 µg/L
Trichloroethylene	< 0.5	ug/L	EPA MCL 5 µg/L
Vinyl chloride	< 0.5	ug/L	EPA MCL 2 µg/L

Report Date: 07/02/2024

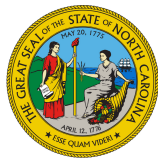
Submitted By:

Kimberly Trossman

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Environmental Health Manager

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NC DEPARTMENT OF
HEALTH AND HUMAN SERVICES
Division of Public Health

Private Well Information and Use Recommendations

For Inorganic Chemical Contaminants

County: Sample Name:

Sample ID #: Reviewer:

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 checked 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	Iron
Lead	Manganese	Mercury	Nickel	Nitrate/Nitrite	Selenium	Silver
Zinc						

3. ☐ 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.

4. ☐ 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.

5. ☐ 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.

Chloride	Copper	Fluoride	Iron	Manganese
pH	Silver	Sulfate	Zinc	

6. ☐ 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.

7. ☐ Re-sampling is recommended in _____ months, to reinvestigate _____.