



North Carolina State Laboratory of Public Health
Environmental Sciences
Organic Chemistry

4312 District Drive
 MSC 1918
 Raleigh, NC 27611-8047
<http://slph.ncpublichealth.com>
 Phone: 919-733-7308
 Fax: 919-715-8611

Certificate of Analysis

FINAL REPORT

Report to: JAMES MANHART

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

Name of System:

William N Faulkner
 781 Raiford Rd
 Erwin, NC 28339

EIN: 566000306EH

Delivery:

Harnett County

StarLiMS ID: **ES240229-0124-001**

Date Collected: 02/28/2024

Time Collected: 15:00

By: **Ren Levocz**

Sample ID: **240109**

Date Received: 02/29/2024

Time Received: 10:58

By: **Rachel Odom**

Sample Type:

Sampling Point:

Well Permit #

Sample Source: Well water

Temp. at Receipt: 5.5 °C

GPS #

Comment:

PETROLEUM Profile

Method: Default

Analyte	Test Result	Reporting Limit	Unit	Qualifier(s)
Petroleum	No Petroleum Products identified		N/A	
Dichlorodifluoromethane	Not Detected	0.5	ug/L	
Chloromethane	Not Detected	0.5	ug/L	
Vinyl chloride	Not Detected	0.5	ug/L	
Bromomethane	Not Detected	0.5	ug/L	
Chloroethane	Not Detected	0.5	ug/L	
Trichlorofluoromethane	Not Detected	0.5	ug/L	
Acetone	Not Detected	0.5	ug/L	
1,1-Dichloroethene	Not Detected	0.5	ug/L	
Iodomethane	Not Detected	0.5	ug/L	
Methylene chloride	Not Detected	0.5	ug/L	
Acrylonitrile	Not Detected	0.5	ug/L	
Carbon Disulfide	Not Detected	0.5	ug/L	
trans-1,2-Dichloroethene	Not Detected	0.5	ug/L	
MTBE	Not Detected	0.5	ug/L	
1,1-Dichloroethane	Not Detected	0.5	ug/L	
cis-1,2-Dichloroethene	Not Detected	0.5	ug/L	
Isopropyl Ether	Not Detected	0.5	ug/L	
2-Butanone (MEK)	Not Detected	0.5	ug/L	
Bromochloromethane	Not Detected	0.5	ug/L	
2,2-Dichloropropane	Not Detected	0.5	ug/L	
Chloroform	Not Detected	0.5	ug/L	
Tetrahydrofuran	Not Detected	0.5	ug/L	
1,1,1-Trichloroethane	Not Detected	0.5	ug/L	



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Sample Source: Well water

Temp. at Receipt: 5.5 °C

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Comment:

1,1-Dichloropropene	Not Detected	0.5	ug/L
Carbon Tetrachloride	Not Detected	0.5	ug/L
Benzene	Not Detected	0.5	ug/L
1,2-Dichloroethane	Not Detected	0.5	ug/L
Trichloroethene	Not Detected	0.5	ug/L
1,2-Dichloropropane	Not Detected	0.5	ug/L
Dibromomethane	Not Detected	0.5	ug/L
4-Methyl-2-pentanone	Not Detected	0.5	ug/L
Bromodichloromethane	Not Detected	0.5	ug/L
cis-1,3-Dichloropropene	Not Detected	0.5	ug/L
Toluene	Not Detected	0.5	ug/L
trans-1,3-Dichloropropene	Not Detected	0.5	ug/L
1,1,2-Trichloroethane	Not Detected	0.5	ug/L
1,3-Dichloropropane	Not Detected	0.5	ug/L
Tetrachloroethene	Not Detected	0.5	ug/L
Dibromochloromethane	Not Detected	0.5	ug/L
2-Hexanone	Not Detected	0.5	ug/L
1,2-Dibromoethane(EDB)	Not Detected	0.5	ug/L
Chlorobenzene	Not Detected	0.5	ug/L
1,1,1,2-Tetrachloroethane	Not Detected	0.50	ug/L
Ethylbenzene	Not Detected	0.5	ug/L
m&p-xylene	Not Detected	1	ug/L
o-Xylene	Not Detected	0.5	ug/L
Styrene	Not Detected	0.5	ug/L
Bromoform	Not Detected	0.5	ug/L
Isopropylbenzene	Not Detected	0.5	ug/L
1,1,2,2-Tetrachloroethane	Not Detected	0.5	ug/L
1,2,3-Trichloropropane	Not Detected	0.5	ug/L



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Sample Type:

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Well Permit #

Sample Source: Well water

Temp. at Receipt: 5.5 °C

GPS #

Comment:

Bromobenzene	Not Detected	0.5	ug/L
n-Propylbenzene	Not Detected	0.5	ug/L
2-Chlorotoluene	Not Detected	0.5	ug/L
4-Chlorotoluene	Not Detected	0.5	ug/L
1,3,5-Trimethylbenzene	Not Detected	0.5	ug/L
tert-Butylbenzene	Not Detected	0.5	ug/L
1,2,4-Trimethylbenzene	Not Detected	0.5	ug/L
sec-Butylbenzene	Not Detected	0.5	ug/L
1,4-Dichlorobenzene	Not Detected	0.5	ug/L
1,3-Dichlorobenzene	Not Detected	0.5	ug/L
4-Isopropyltoluene	Not Detected	0.5	ug/L
1,2-Dichlorobenzene	Not Detected	0.5	ug/L
n-Butylbenzene	Not Detected	0.5	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	Not Detected	0.5	ug/L
1,2,4-Trichlorobenzene	Not Detected	0.5	ug/L
Naphthalene	Not Detected	0.5	ug/L
Hexachlorobutadiene	Not Detected	0.5	ug/L
1,2,3-Trichlorobenzene	Not Detected	0.5	ug/L
Total Xylenes	Not Detected	0.5	ug/L



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EIN: 566000306EH

Delivery:

Harnett County

StarLIMS ID: **ES240229-0124-002**

Date Collected: 05/17/2017

Time Collected: 00:01

By: **KMN**

Sample ID: **240110**

Date Received: 02/29/2024

Time Received: 10:58

By: **Rachel Odom**

Sample Type:

Sampling Point:

Well Permit #

Sample Source: Trip Blank

Temp. at Receipt: 5.5 °C

GPS #

Comment:

VOCs Profile

Method: EPA 524.2

Analyte	Test Result	Reporting Limit	Unit	Qualifier(s)
Dichlorodifluoromethane	Not Detected	0.5	ug/L	
Chloromethane	Not Detected	0.5	ug/L	
Vinyl chloride	Not Detected	0.5	ug/L	
Bromomethane	Not Detected	0.5	ug/L	
Chloroethane	Not Detected	0.5	ug/L	
Trichlorofluoromethane	Not Detected	0.5	ug/L	
Acetone	Not Detected	0.5	ug/L	
1,1-Dichloroethene	Not Detected	0.5	ug/L	
Iodomethane	Not Detected	0.5	ug/L	
Methylene chloride	Not Detected	0.5	ug/L	
Acrylonitrile	Not Detected	0.5	ug/L	
Carbon Disulfide	Not Detected	0.5	ug/L	
trans-1,2-Dichloroethene	Not Detected	0.5	ug/L	
MTBE	Not Detected	0.5	ug/L	
1,1-Dichloroethane	Not Detected	0.5	ug/L	
cis-1,2-Dichloroethene	Not Detected	0.5	ug/L	
Isopropyl Ether	Not Detected	0.5	ug/L	
2-Butanone (MEK)	Not Detected	0.5	ug/L	
Bromochloromethane	Not Detected	0.5	ug/L	
2,2-Dichloropropane	Not Detected	0.5	ug/L	
Chloroform	Not Detected	0.5	ug/L	
Tetrahydrofuran	Not Detected	0.5	ug/L	
1,1,1-Trichloroethane	Not Detected	0.5	ug/L	
1,1-Dichloropropene	Not Detected	0.5	ug/L	
Carbon Tetrachloride	Not Detected	0.5	ug/L	



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Time Collected: 00:01

By: **KMN**

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Date Received: 02/29/2024

Time Received: 10:58

By: **Rachel Odom**

Sample Type:
 Sample Source: Trip Blank

Sampling Point:
 Temp. at Receipt: 5.5 °C

Well Permit #
 GPS #

Comment:

Benzene	Not Detected	0.5	ug/L
1,2-Dichloroethane	Not Detected	0.5	ug/L
Trichloroethene	Not Detected	0.5	ug/L
1,2-Dichloropropane	Not Detected	0.5	ug/L
Dibromomethane	Not Detected	0.5	ug/L
4-Methyl-2-pentanone	Not Detected	0.5	ug/L
Bromodichloromethane	Not Detected	0.5	ug/L
cis-1,3-Dichloropropene	Not Detected	0.5	ug/L
Toluene	Not Detected	0.5	ug/L
trans-1,3-Dichloropropene	Not Detected	0.5	ug/L
1,1,2-Trichloroethane	Not Detected	0.5	ug/L
1,3-Dichloropropane	Not Detected	0.5	ug/L
Tetrachloroethene	Not Detected	0.5	ug/L
Dibromochloromethane	Not Detected	0.5	ug/L
2-Hexanone	Not Detected	0.5	ug/L
1,2-Dibromoethane(EDB)	Not Detected	0.5	ug/L
Chlorobenzene	Not Detected	0.5	ug/L
1,1,1,2-Tetrachloroethane	Not Detected	0.50	ug/L
Ethylbenzene	Not Detected	0.5	ug/L
m&p-xylene	Not Detected	1	ug/L
o-Xylene	Not Detected	0.5	ug/L
Styrene	Not Detected	0.5	ug/L
Bromoform	Not Detected	0.5	ug/L
Isopropylbenzene	Not Detected	0.5	ug/L
1,1,2,2-Tetrachloroethane	Not Detected	0.5	ug/L
1,2,3-Trichloropropane	Not Detected	0.5	ug/L
Bromobenzene	Not Detected	0.5	ug/L
n-Propylbenzene	Not Detected	0.5	ug/L



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By: **Rachel Odom**

Sample Type:

Sampling Point:

Well Permit #

Sample Source: Trip Blank

Temp. at Receipt: 5.5 °C

GPS #

Comment:

2-Chlorotoluene	Not Detected	0.5	ug/L
4-Chlorotoluene	Not Detected	0.5	ug/L
1,3,5-Trimethylbenzene	Not Detected	0.5	ug/L
tert-Butylbenzene	Not Detected	0.5	ug/L
1,2,4-Trimethylbenzene	Not Detected	0.5	ug/L
sec-Butylbenzene	Not Detected	0.5	ug/L
1,4-Dichlorobenzene	Not Detected	0.5	ug/L
1,3-Dichlorobenzene	Not Detected	0.5	ug/L
4-Isopropyltoluene	Not Detected	0.5	ug/L
1,2-Dichlorobenzene	Not Detected	0.5	ug/L
n-Butylbenzene	Not Detected	0.5	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	Not Detected	0.5	ug/L
1,2,4-Trichlorobenzene	Not Detected	0.5	ug/L
Naphthalene	Not Detected	0.5	ug/L
Hexachlorobutadiene	Not Detected	0.5	ug/L
1,2,3-Trichlorobenzene	Not Detected	0.5	ug/L
Total Xylenes	Not Detected	0.5	ug/L

Report Date: 04/18/2024

Reported By: James Parrish



NC DEPARTMENT OF
HEALTH AND HUMAN SERVICES
Division of Public Health

Private Well Information and Use Recommendations

For Inorganic Chemical Contaminants

County: Hertford

Sample Name: Petroleum

Sample ID #: ES240229-0124-001

Reviewer: Rachel Odem

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*.

- | | | | | | | |
|----------------------------------|------------------------------------|----------------------------------|-----------------------------------|--|-----------------------------------|---------------------------------|
| <input type="checkbox"/> Arsenic | <input type="checkbox"/> Barium | <input type="checkbox"/> Cadmium | <input type="checkbox"/> Chromium | <input type="checkbox"/> Copper | <input type="checkbox"/> Fluoride | <input type="checkbox"/> Iron |
| <input type="checkbox"/> Lead | <input type="checkbox"/> Manganese | <input type="checkbox"/> Mercury | <input type="checkbox"/> Nickel | <input type="checkbox"/> Nitrate/Nitrite | <input type="checkbox"/> Selenium | <input type="checkbox"/> Silver |
| <input type="checkbox"/> 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.

- | | | | | |
|-----------------------------------|---------------------------------|-----------------------------------|-------------------------------|------------------------------------|
| <input type="checkbox"/> Chloride | <input type="checkbox"/> Copper | <input type="checkbox"/> Fluoride | <input type="checkbox"/> Iron | <input type="checkbox"/> Manganese |
| <input type="checkbox"/> pH | <input type="checkbox"/> Silver | <input type="checkbox"/> Sulfate | <input type="checkbox"/> 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 _____.