



North Carolina State Laboratory of Public Health
Environmental Sciences
Inorganic Chemistry

4312 District Drive
 MSC 1918
 Raleigh, NC 27699-1918
 http://slph.ncpublichealth.com
 Phone: 919-733-7308
 Fax: 919-715-8611

Certificate of Analysis

FINAL REPORT

Report to: James E Manhart III

Name of System:

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

Sherry Stewart
121 Stewart Farm Ln
Spring Lake, NC 28390

EIN: 566000306EH

Delivery: NC Courier

StarLiMS ID: **ES190108-0046**

Date Collected: 01/07/2019

Time Collected: 10:30

By: JEM III

Date Received: 01/08/2019

Time Received: 08:00

Sample Type: Raw

Sampling Point: Well head

Well Permit No.

Sample Source: Well water

Receipt Temp. :

GPS No.

Comment:

Profile: Inorganic Chemical + Metals I

Analyte	Test Result	Allowable Limit	Unit	Qualifier(s)
Arsenic	<0.005	0.010	mg/L	
Barium	<0.1	2.0	mg/L	
Cadmium	<0.001	0.005	mg/L	
Calcium	14		mg/L	
Chloride	13.40	250	mg/L	
Chromium	<0.01	0.10	mg/L	
Copper	<0.05	1.3	mg/L	
Fluoride	0.476	4.00	mg/L	
Iron	<0.1	0.30	mg/L	
Lead	<0.005	0.015	mg/L	
Magnesium	2		mg/L	
Manganese	0.07	0.05	mg/L	
Mercury	<0.0005	0.002	mg/L	
pH	8.4		N/A	
Selenium	<0.005	0.05	mg/L	
Silver	<0.05	0.10	mg/L	
Sodium	66.2		mg/L	
Sulfate	29.31	250	mg/L	
Total Alkalinity	130		mg/L	
Total Hardness	45		mg/L	
Zinc	<0.05	5.00	mg/L	

Report Date: 01/17/2019

Reported By: Kenneth Greene



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FINAL REPORT

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 307 CORNELIUS HARNETT BLVD
 LILLINGTON, NC 27546

Sherry Stewart
 121 Stewart Farm Ln.
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EIN: 566000306EH

Delivery: NC Courier

Harnett County

StarLiMS ID: **ES190108-0126-001**

Date Collected: 01/07/2019

Time Collected: 11:00

By: **JEM**

Sample ID: **190013**

Date Received: 01/08/2019

Time Received: 09:28

By: **Marty Nicholson**

Sample Type:

Sampling Point:

Well Permit #

Sample Source: Well water

Temp. at Receipt: 8.0 °C

GPS #

Comment: Analytical method requires sample receipt temperature less than 6 degrees C. Data may not be submitted for regulatory compliance with the Safe Drinking Water Act.

PESTICIDES Profile

Method: EPA 508

Analyte	Test Result	Reporting Limit	Unit	Qualifier(s)
Hexachlorocyclopentadiene	Not Detected	0.1	ug/L	
Propachlor	Not Detected	0.1	ug/L	
Trifluralin	Not Detected	0.1	ug/L	
Hexachlorobenzene	Not Detected	0.1	ug/L	
Lindane	Not Detected	0.1	ug/L	
Heptachlor	Not Detected	0.1	ug/L	
Aldrin	Not Detected	0.1	ug/L	
Heptachlor epoxide	Not Detected	0.1	ug/L	
Dieldrin	Not Detected	0.1	ug/L	
Endrin	Not Detected	0.1	ug/L	
Methoxychlor	Not Detected	0.1	ug/L	
Chlordane	Not Detected	0.1	ug/L	
Toxaphene	Not Detected	0.1	ug/L	

Report Date: 01/18/2019

Reported By: James Parrish



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

Name of System:

Sherry Stewart
121 Stewart Farm Lane
Spring Lake, NC 28390

EIN: 566000306EH

Delivery: NC Courier

Harnett County

StarLiMS ID: ES190108-0061-001

Date Collected: 01/07/2019

Time Collected: 11:00

By: James Manhart

Sample ID: 190010

Date Received: 01/08/2019

Time Received: 08:52

By: Marty Nicholson

Sample Type:

Sampling Point:

Well Permit #

Sample Source: Well water

Temp. at Receipt: 5.0 °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	0.50	ug/L	
Chloromethane	Not Detected	0.50	ug/L	
Vinyl chloride	Not Detected	0.50	ug/L	
Chloroethane	Not Detected	0.50	ug/L	
Trichlorofluoromethane	Not Detected	0.50	ug/L	
Acetone	Not Detected	0.50	ug/L	
1,1-Dichloroethene	Not Detected	0.50	ug/L	
Methylene chloride	Not Detected	0.50	ug/L	
Acrylonitrile	Not Detected	0.50	ug/L	
Carbon Disulfide	Not Detected	0.50	ug/L	
trans-1,2-Dichloroethene	Not Detected	0.50	ug/L	
MTBE	Not Detected	0.50	ug/L	
1,1-Dichloroethane	Not Detected	0.50	ug/L	
cis-1,2-Dichloroethene	Not Detected	0.50	ug/L	
Isopropyl Ether	Not Detected	0.50	ug/L	
2-Butanone (MEK)	Not Detected	0.50	ug/L	
Bromochloromethane	Not Detected	0.50	ug/L	
2,2-Dichloropropane	Not Detected	0.50	ug/L	
Chloroform	Not Detected	0.50	ug/L	
Tetrahydrofuran	Not Detected	0.50	ug/L	
1,1,1-Trichloroethane	Not Detected	0.50	ug/L	
1,1-Dichloropropene	Not Detected	0.50	ug/L	
Carbon Tetrachloride	Not Detected	0.50	ug/L	



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Time Collected: 11:00

By: James Manhart

Sample ID: 190010

Date Received: 01/08/2019

Time Received: 08:52

By: Marty Nicholson

Sample Type:

Sampling Point:

Well Permit #

Sample Source: Well water

Temp. at Receipt: 5.0 °C

GPS #

Comment:

Benzene	Not Detected	0.50	ug/L
1,2-Dichloroethane	Not Detected	0.50	ug/L
Trichloroethene	Not Detected	0.50	ug/L
1,2-Dichloropropane	Not Detected	0.50	ug/L
Dibromomethane	Not Detected	0.50	ug/L
4-Methyl-2-pentanone	Not Detected	0.50	ug/L
Bromodichloromethane	Not Detected	0.50	ug/L
cis-1,3-Dichloropropene	Not Detected	0.50	ug/L
Toluene	Not Detected	0.50	ug/L
trans-1,3-Dichloropropene	Not Detected	0.50	ug/L
1,1,2-Trichloroethane	Not Detected	0.50	ug/L
1,3-Dichloropropane	Not Detected	0.50	ug/L
Tetrachloroethene	Not Detected	0.50	ug/L
Dibromochloromethane	Not Detected	0.50	ug/L
2-Hexanone	Not Detected	0.50	ug/L
1,2-Dibromoethane(EDB)	Not Detected	0.50	ug/L
Chlorobenzene	Not Detected	0.50	ug/L
1,1,1,2-Tetrachloroethane	Not Detected	0.50	ug/L
Ethylbenzene	Not Detected	0.50	ug/L
m&p-xylene	Not Detected	1.0	ug/L
o-Xylene	Not Detected	0.50	ug/L
Styrene	Not Detected	0.50	ug/L
Bromoform	Not Detected	0.50	ug/L
Isopropylbenzene	Not Detected	0.50	ug/L
1,1,2,2-Tetrachloroethane	Not Detected	0.50	ug/L
1,2,3-Trichloropropane	Not Detected	0.50	ug/L
Bromobenzene	Not Detected	0.50	ug/L
n-Propylbenzene	Not Detected	0.50	ug/L



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Sherry Stewart

307 CORNELIUS HARNETT BLVD

121 Stewart Farm Lane

LILLINGTON, NC 27546

Spring Lake, NC 28390

EIN: 566000306EH

Delivery: NC Courier

Harnett County

StarLiMS ID: **ES190108-0061-001**

Date Collected: 01/07/2019

Time Collected: 11:00

By: **James Manhart**

Sample ID: **190010**

Date Received: 01/08/2019

Time Received: 08:52

By: **Marty Nicholson**

Sample Type:

Sampling Point:

Well Permit #

Sample Source: Well water

Temp. at Receipt: 5.0 °C

GPS #

Comment:

2-Chlorotoluene	Not Detected	0.50	ug/L
4-Chlorotoluene	Not Detected	0.50	ug/L
1,3,5-Trimethylbenzene	Not Detected	0.50	ug/L
tert-Butylbenzene	Not Detected	0.50	ug/L
1,2,4-Trimethylbenzene	Not Detected	0.50	ug/L
sec-Butylbenzene	Not Detected	0.50	ug/L
1,4-Dichlorobenzene	Not Detected	0.50	ug/L
1,3-Dichlorobenzene	Not Detected	0.50	ug/L
4-Isopropyltoluene	Not Detected	0.50	ug/L
1,2-Dichlorobenzene	Not Detected	0.50	ug/L
n-Butylbenzene	Not Detected	0.50	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	Not Detected	0.50	ug/L
1,2,4-Trichlorobenzene	Not Detected	0.50	ug/L
Naphthalene	Not Detected	0.50	ug/L
Hexachlorobutadiene	Not Detected	0.50	ug/L
1,2,3-Trichlorobenzene	Not Detected	0.50	ug/L
Total Xylenes	Not Detected	0.50	ug/L



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EIN: 566000306EH

Delivery: NC Courier

Harnett County

StarLiMS ID: **ES190108-0061-002**

Date Collected: 05/17/2017

Time Collected: 00:01

By: **KMN**

Sample ID: **190011**

Date Received: 01/08/2019

Time Received: 08:52

By: **Marty Nicholson**

Sample Type:

Sampling Point:

Well Permit #

Sample Source: Trip Blank

Temp. at Receipt: 5.0 °C

GPS #

Comment:

VOCs Profile

Method: EPA 524.2

Analyte	Test Result	Reporting Limit	Unit	Qualifier(s)
Dichlorodifluoromethane	Not Detected	0.50	ug/L	
Chloromethane	Not Detected	0.50	ug/L	
Vinyl chloride	Not Detected	0.50	ug/L	
Chloroethane	Not Detected	0.50	ug/L	
Trichlorofluoromethane	Not Detected	0.50	ug/L	
Acetone	Not Detected	0.50	ug/L	
1,1-Dichloroethene	Not Detected	0.50	ug/L	
Methylene chloride	Not Detected	0.50	ug/L	
Acrylonitrile	Not Detected	0.50	ug/L	
Carbon Disulfide	Not Detected	0.50	ug/L	
trans-1,2-Dichloroethene	Not Detected	0.50	ug/L	
MTBE	Not Detected	0.50	ug/L	
1,1-Dichloroethane	Not Detected	0.50	ug/L	
cis-1,2-Dichloroethene	Not Detected	0.50	ug/L	
Isopropyl Ether	Not Detected	0.50	ug/L	
2-Butanone (MEK)	Not Detected	0.50	ug/L	
Bromochloromethane	Not Detected	0.50	ug/L	
2,2-Dichloropropane	Not Detected	0.50	ug/L	
Chloroform	Not Detected	0.50	ug/L	
Tetrahydrofuran	Not Detected	0.50	ug/L	
1,1,1-Trichloroethane	Not Detected	0.50	ug/L	
1,1-Dichloropropene	Not Detected	0.50	ug/L	
Carbon Tetrachloride	Not Detected	0.50	ug/L	
Benzene	Not Detected	0.50	ug/L	
1,2-Dichloroethane	Not Detected	0.50	ug/L	



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Time Collected: 00:01

By: **KMN**

Sample ID: **190011**

Date Received: 01/08/2019

Time Received: 08:52

By: **Marty Nicholson**

Sample Type:

Sampling Point:

Well Permit #

Sample Source: Trip Blank

Temp. at Receipt: 5.0 °C

GPS #

Comment:

Trichloroethene	Not Detected	0.50	ug/L
1,2-Dichloropropane	Not Detected	0.50	ug/L
Dibromomethane	Not Detected	0.50	ug/L
4-Methyl-2-pentanone	Not Detected	0.50	ug/L
Bromodichloromethane	Not Detected	0.50	ug/L
cis-1,3-Dichloropropene	Not Detected	0.50	ug/L
Toluene	Not Detected	0.50	ug/L
trans-1,3-Dichloropropene	Not Detected	0.50	ug/L
1,1,2-Trichloroethane	Not Detected	0.50	ug/L
1,3-Dichloropropane	Not Detected	0.50	ug/L
Tetrachloroethene	Not Detected	0.50	ug/L
Dibromochloromethane	Not Detected	0.50	ug/L
2-Hexanone	Not Detected	0.50	ug/L
1,2-Dibromoethane(EDB)	Not Detected	0.50	ug/L
Chlorobenzene	Not Detected	0.50	ug/L
1,1,1,2-Tetrachloroethane	Not Detected	0.50	ug/L
Ethylbenzene	Trace	0.50	ug/L
m&p-xylene	Not Detected	1.0	ug/L
o-Xylene	Not Detected	0.50	ug/L
Styrene	1.28	0.50	ug/L
Bromoform	Not Detected	0.50	ug/L
Isopropylbenzene	Not Detected	0.50	ug/L
1,1,2,2-Tetrachloroethane	Not Detected	0.50	ug/L
1,2,3-Trichloropropane	Not Detected	0.50	ug/L
Bromobenzene	Not Detected	0.50	ug/L
n-Propylbenzene	Not Detected	0.50	ug/L
2-Chlorotoluene	Not Detected	0.50	ug/L
4-Chlorotoluene	Not Detected	0.50	ug/L



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Date Collected: 05/17/2017

Time Collected: 00:01

By: **KMN**

Sample ID: **190011**

Date Received: 01/08/2019

Time Received: 08:52

By: **Marty Nicholson**

Sample Type:

Sampling Point:

Well Permit #

Sample Source: Trip Blank

Temp. at Receipt: 5.0 °C

GPS #

Comment:

1,3,5-Trimethylbenzene	Not Detected	0.50	ug/L
tert-Butylbenzene	Not Detected	0.50	ug/L
1,2,4-Trimethylbenzene	Not Detected	0.50	ug/L
sec-Butylbenzene	Not Detected	0.50	ug/L
1,4-Dichlorobenzene	Not Detected	0.50	ug/L
1,3-Dichlorobenzene	Not Detected	0.50	ug/L
4-Isopropyltoluene	Not Detected	0.50	ug/L
1,2-Dichlorobenzene	Not Detected	0.50	ug/L
n-Butylbenzene	Not Detected	0.50	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	Not Detected	0.50	ug/L
1,2,4-Trichlorobenzene	Not Detected	0.50	ug/L
Naphthalene	Not Detected	0.50	ug/L
Hexachlorobutadiene	Not Detected	0.50	ug/L
1,2,3-Trichlorobenzene	Not Detected	0.50	ug/L
Total Xylenes	Not Detected	0.50	ug/L

Report Date: 01/23/2019

Reported By: **James Parrish**



Private Well Information and Use Recommendations For Inorganic Chemical Contaminants

County: HAYWATE

Name: SHERY STEWART

Sample ID #: ES 190 108 -0046

Reviewer: Kenneth Greene

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.