CW

# ICHD Environmental Health Division

INSPECTIONS: 704-664-3703 Statesville Office: (704) 878-5305 x3456 - Mooresville Office: (704) 660-3625

**PRIVATE DRINKING WATER WELL PERMIT #** 319358 **PIN #** 4639 - 86 - 3349 **Type of Permit (circle one):** (New) Repair Abandonment

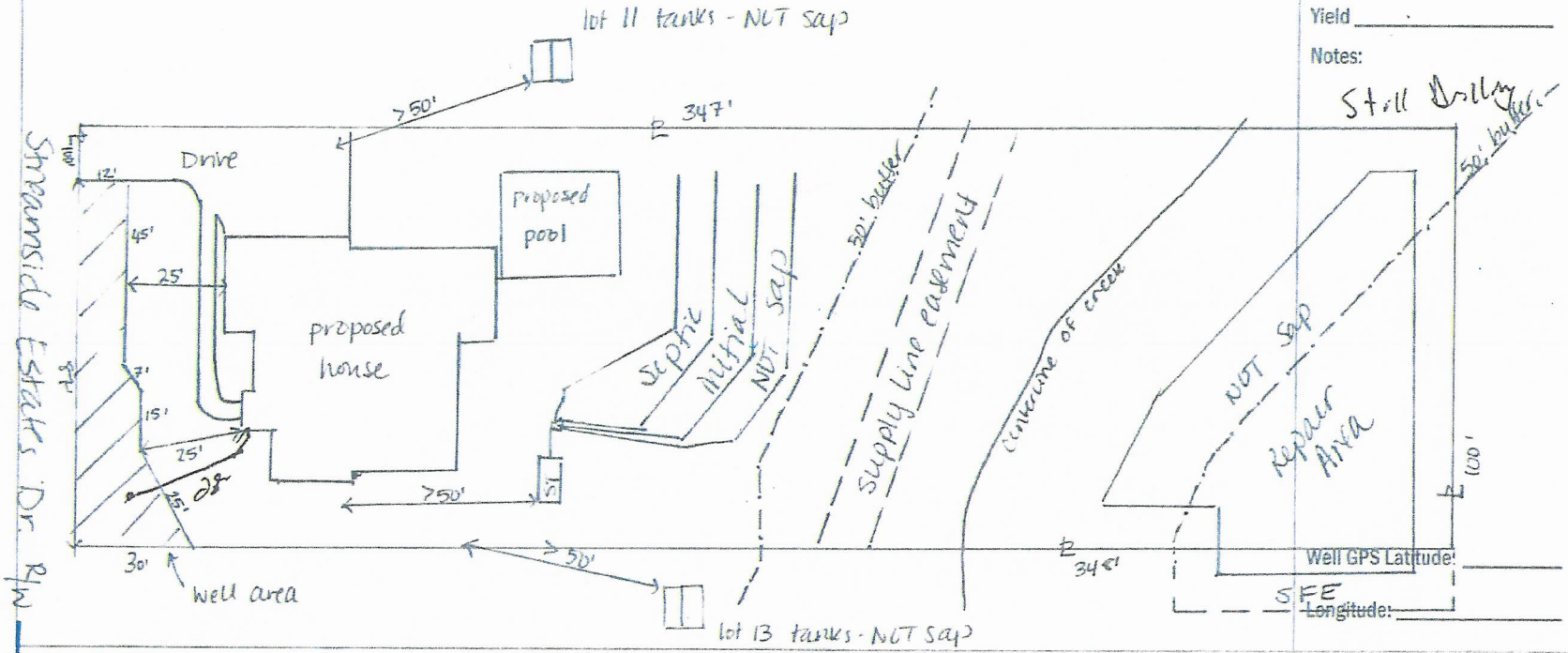
APPLICANT/OWNER NAME: Foundation Homes ADDRESS: 438 Williamson, Suite 3 Mooresville NC 28117 PHONE: 704-360-2251

DIRECTIONS TO SITE: (N) on Perth → (L) Fern Hill → (L) Streamside Estates → lot on (L)

SITE ADDRESS: 153 Streamside Estates Dr. Mooresville 28117 SUBDIVISION: Streamside Estates SECTION (LOT): 12

Initial Site Sketch

1" = 40'




**GROUTING RESULTS**

Total Depth 27'

Depth of Casing 75'

Yield

Notes:

PERMIT CONDITIONS/COMMENTS: Follow all NCAC 2C well rules - grout min 20', Set min 20' casing. Maintain 25' off structures, 50' off all septic components. Drill in well area.

WELL PERMIT ISSUED BY: D. Wiebesiek DATE: 10/12/21 (Permit is valid for 5 years from date issued. This permit may be revoked if it is determined there has been a material change in any fact or circumstance upon which the permit is issued. Actions of the employees of the Iredell County Health Department shall in no way be taken as a guarantee that this well will produce water of any particular quantity or quality or for any amount of time. Employees of the Iredell County Health Department assume no liability for any damages either direct or consequential which may be caused by this well.)

E-MAILED 10/13/21

Well Contractor: ES&K CONTRACTOR CERT #: 2857A GROUT INSPECTION BY: DATE: 2-9-2022

OR CERTIFICATION OF GROUT NOT WITNESSED BY DEPT: DATE: WELL HEAD INSPECTION BY: DATE: 1/4/23

WELL HEAD INSPECTION (check when completed): GROUT TO GROUND SURFACE ☑ WELL CONTRACTOR ID PLATE ☑ PUMP INSTALLER ID PLATE ☑ SAMPLE PORT ☑

ACCESS PORT / VENT ☑ WELL SEAL ☑ WELL HEAD 12 INCHES / PITLESS ADAPTOR 8 INCHES ABOVE GRADE ☑

CERTIFICATE OF COMPLETION BY: DATE: WATER SAMPLES BY: Sarah Bracken DATE: 1/18/23

Attachments Form GW-1a (required except for abandonment) ☐ Form GW-30 ☐ Water Sample Results ☐ Plat ☐ CALL 704-664-3703 to schedule grout or well head inspections between 8-9am

North Carolina Division of Public Health
Occupational and Environmental Epidemiology Branch, Epidemiology Section
BIOLOGICAL ANALYSIS REPORT

Private well water information and recommendations

County: Iredell Name: Foundation Homes Sample ID Number: ES230119-0125
Location: 153 Streamside Estates Dr Mooresville Reviewer Teanna Kobuck

Initial Sample X Confirmation Sample _____

BIOLOGICAL ANALYSIS RESULTS AND RECOMMENDATIONS FOR USES OF YOUR PRIVATE WELL WATER (These recommendations are based on biological analysis only.)

✔ No coliform bacteria were found in your well water. Your water can be used for all purposes including drinking, cooking, washing dishes, bathing and showering.

_____ Total coliform bacteria were detected in your water sample. Total Coliform are a group of related bacteria that are (with few exceptions) not harmful to humans. A variety of bacteria, parasites, and viruses, known as pathogens, can potentially cause health problems if humans ingest them. EPA considers total coliforms a useful indicator of other pathogens for drinking water. Total coliforms are used to determine the adequacy of water treatment and the integrity of the distribution system

_____ It is recommended that your well water be re-tested to verify that the result is accurate.

_____ Fecal coliform bacteria were detected in the sample. **Do not use the water for drinking, cooking, washing dishes, bathing or showering**.

If the re-test shows contamination by bacteria contact your local health department for assistance. There may be a problem with the construction of the well, the groundwater source, or operation of the well. The well needs to be inspected by the local health department or a local well contractor to determine the problem with the well and to give guidance on how to correct the problem.

Your well water was tested for biological contaminants (total coliform and fecal coliform bacteria). The results were evaluated using the federal drinking water standards.

Drinking water may contain substances that can occur naturally in water or can be introduced into water from man-made sources. Total coliform bacteria are found in soil and fecal coliform bacteria are found in animal and human waste. Total coliform or fecal coliform bacteria in well water indicate that the well may have structural problems or that the well was not properly disinfected.

If you have been drinking the well water and are pregnant, nursing, have a child in the household under 5 years of age, or immunocompromised (such as an individual with AIDS, cancer, hepatitis, dialysis or surgical procedures) inform your physician of these results at your next visit.

If the contamination continues, you should investigate the possibility of drilling a new well or installing a point-of-entry disinfection unit which can use chlorine, ultraviolet light, or ozone.

For further information please contact your county health department or the Occupational and Environmental Epidemiology Branch at 919-707-5900.

# North Carolina State Laboratory of Public Health

*Environmental Sciences*

**Microbiology**


## Certificate of Analysis


4312 District Drive
MSC 1918
Raleigh, NC 27699-1918

http://slph.ncpublichealth.com
Phone: 919-733-7308
Fax: 919-715-8611


**FINAL REPORT**

**Report to:** **Teanna Kobuck**

**IREDELL CO. ENVIRONMENTAL HEALTH DEPT - MOORESVILLE**
**610 EAST CENTER AVENUE**
**Mooresville, NC 28115**

**Name of System:**

**Foundation Homes**
**153 Streamside Estates Dr**
**Mooresville, NC 28117**

**EIN: 566000309E** **Delivery:** **NC Courier** **Iredell County**

StarLiMS ID: **ES230119-0125**

Date Collected: 01/18/2023 Time Collected: 09:50 By: Sarah Bracken
Date Received: 01/19/2023 Time Received: 09:00 By: Angela Heybroek

Sample Source: New Well
Sample Type: Raw
Treatment:

Sampling Point: Well head
GPS No.
Well Permit No. AP-319358

Comment:

**Colilert Profile** **Method: SM 9223B**

| Analyte | Test Result | Unit | Conclusion | Date Tested |
|---|---|---|---|---|
| Total Coliform | Absent | | | 01/19/2023 |
| E. coli | Absent | | | 01/19/2023 |

**Report Date:** 01/20/2023 **Reported By:** **KPLEMMONS**

**Explanations of Coliform Analysis:**

If coliform bacteria are **Absent**, the water is considered safe for drinking purpose. If coliform bacteria are **Present**, the water is considered unsafe for drinking purpose. Presence of *E. coli* (bacteria) generally indicates that the water has been contaminated with fecal material. It must be remembered that a water analysis refers only to the sample received and should not be regarded as a complete report on the water supply.

N O R T H C A R O L I N A

NC DEPARTMENT OF
**HEALTH AND HUMAN SERVICES**
Division of Public Health

# Private Well Information and Use Recommendations

## *For Inorganic Chemical Contaminants*

County: Iredell | Sample Name: 153 Streamside Estates Dr Mooresville

Sample ID #: ES230119-0025 | Reviewer: Teanna Kobuck

### 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 ☐Flouride ☐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_____.

***For more information regarding your well water results, please call the North Carolina Division of Public Health at 919-707-5900.***

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*Environmental Sciences*

**Inorganic Chemistry**

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**Mooresville, NC 28117**

**EIN: 566000309E**

**Delivery:** NC Courier

StarLiMS ID: ES230119-0025

Date Collected: 01/18/2023
Time Collected: 09:50
By: Sarah Bracken
Date Received: 01/19/2023
Time Received: 07:46

Sample Type: Raw
Sampling Point: Well head
Well Permit No. AP-319358
Sample Source: New Well
Receipt Temp. : 2.5 °C
GPS Number:

**Profile: New Well I**

| Analyte | Test Result | Allowable Limit | Unit | Qualifier(s) |
|---|---|---|---|---|
| Arsenic | <0.001 | 0.010 | mg/L | |
| Barium | <0.1 | 2.0 | mg/L | |
| Cadmium | <0.0001 | 0.005 | mg/L | |
| Calcium | 26 | | mg/L | |
| Chloride | 5.5 | 250 | mg/L | |
| Chromium | <0.02 | 0.10 | mg/L | |
| Copper | <0.01 | 1.3 | mg/L | |
| Fluoride | 0.887 | 4.00 | mg/L | |
| Iron | 0.06 | 0.30 | mg/L | |
| Lead | <0.003 | 0.015 | mg/L | |
| Magnesium | 5 | | mg/L | |
| Manganese | 0.033 | 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 | 7.3 | | N/A | |
| Selenium | <0.005 | 0.05 | mg/L | |
| Silver | <0.01 | 0.10 | mg/L | |
| Sodium | 9.2 | | mg/L | |
| Sulfate | 20.7 | 250 | mg/L | |
| Total Alkalinity | 73 | | mg/L | |
| Total Hardness | 87 | | mg/L | |
| Zinc | <0.05 | 5.0 | mg/L | |