Esbri, Elizabeth

From: Eaton, Patrick <peaton@dconc.gov>
Sent: Monday, October 26, 2015 10:12 AM
To: jdgray@mindspring.com
Cc: Wood, Nancy A.
Subject: RE: Bacteriological test results 8201 Farrington Mill Rd
Attachments: 8201 Farrington Mill Rd BacT.pdf; 8201 Farrington Mill Inorg.pdf; SKM_284e15102610151.pdf

John,

We've received the results for the inorganic testing. Please see the attached lab report and health risk assessment.

The well at 8201 Farrington Mill is contaminated with both total coliform and e. Coli. The well also has manganese levels that exceed drinking water standards. There is no guarantee that repairs to the existing well or drilling a new well will alleviate this contamination. Connection to municipal water is the best option for this property.

Please let me know if you have any other questions or if I may be of further service.

Best regards,

PATRICK C. EATON, REHS | **Onsite Water Protection Supervisor**

Public Health

Durham County Department of Public Health
Human Services Building – (2nd Floor) WS-2219
414 East Main Street
Durham, North Carolina 27701
Office (919) 560-7812 | Fax (919) 560-7830 | Cell (919) 761-3973
peaton@dconc.gov

***HIPAA Confidentiality Notice**: This email and its attachments may contain privileged and confidential information and/or protected health information (PHI) by virtue of the Health Insurance Portability and Accountability Act of 1996 (HIPAA), intended solely for the use of individual or entity to which it is addressed.*

If you are not the recipient, or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any review, dissemination, distribution, printing or copying of this email message and/or any attachments is strictly prohibited. ***If you have received this transmission in error, please permanently delete this email and any attachments and notify the sender immediately by telephone.***

From: jdgray@mindspring.com [mailto:jdgray@mindspring.com]
Sent: Thursday, October 15, 2015 9:39 PM
To: Eaton, Patrick <peaton@dconc.gov>
Subject: Fwd: Bacteriological test results 8201 Farrington Mill Rd

Public Health
100 Years of Service • 1913-2013

ENVIRONMENTAL HEALTH DIVISION

BACTERIOLOGICAL WATER SAMPLE ANALYSIS REPORT

NAME JOHN D. GRAY

MAILING ADDRESS 123 CUB CREEK EXT.

EMAIL ADDRESS jdgray@mindspring.com

LOCATION 820 FARRINGTON MILL RD CHAPEL HILL NC ZIP: 27517

TELEPHONE NUMBER 919-815-0698

NEW WELL ___ EXISTING WELL ✓

SAMPLE TAKEN FROM: HOUSE TAP ✓ WELL HEAD ___ OTHER ___

WELL LOCATION: ABOVE GRADE ___ BELOW GRADE ✓

COMMENTS

COLLECTED BY NANCY WOOD REHS 2308

DATE/TIME 10/13/15 11:30 am

DELIVERED TO LAB @ 10/13/15 3:15 pm

BACTERIAL COLIFORM TEST BY COLILERT METHOD

RESULTS: TOTAL BACTERIA: Negative ___ Positive ✓

E. COLI: Negative ___ Positive ✓

SAMPLE REPORTED BY: MR DATE: 10-14-15

Durham County Health Department does not recommend using water for human consumption from any well containing bacteria.

North Carolina State Laboratory of Public Health

Environmental Sciences

Inorganic Chemistry

Certificate of Analysis

P.O. Box 28047
4312 District Drive
Raleigh, NC 27611-8047
http://slph.ncpublichealth.com
Phone: 919-733-7308
Fax: 919-715-8611

Report To: **NANCY WOOD**

DURHAM CO ENVIRONMENTAL HEALTH

414 EAST MAIN ST

DURHAM, NC 27701

EIN: 566000297EH

Courier # 17-23-01

Name of System:

JOHN D GRAY

8201 FARRINGTON MILL RD
CHAPEL HILL, NC 27517

StarLiMS ID:	**ES101415-0025001**	Date Collected:	10/13/15	Time Collected:	11:30 AM
		Date Received:	10/14/15	Collected By:	Nancy Wood

Sample Type:	Raw	Sampling Point:	House tap	Well Permit #:	
Sample Source:	Well	Temp. at Receipt:	0.5	GPS #:	

Sample Description:
Comment:
New Well I (Profile)

Analyte	Result	Allowable Limit	Unit	Qualifier(s)
Arsenic	< 0.005	0.010	mg/L	
Barium	0.114	2.00	mg/L	
Cadmium	< 0.001	0.005	mg/L	
Calcium	56		mg/L	
Chloride	170.00	250	mg/L	
Chromium	< 0.01	0.10	mg/L	
Copper	< 0.05	1.3	mg/L	
Fluoride	0.21	4.00	mg/L	
Iron	0.16	0.30	mg/L	
Lead	< 0.005	0.015	mg/L	
Magnesium	17		mg/L	
Manganese	0.08	0.05	mg/L	
Mercury	< 0.0005	0.002	mg/L	
Nitrate	< 1.00	10.00	mg/L	
Nitrite	< 0.10	1.00	mg/L	
pH	8.0		N/A	
Selenium	< 0.005	0.05	mg/L	
Silver	< 0.05	0.10	mg/L	
Sodium	140.00		mg/L	
Sulfate	15.00	250	mg/L	
Total Alkalinity	287		mg/L	
Total Hardness	210		mg/L	
Zinc	0.13	5.00	mg/L	

Report Date: 10/21/2015

Reported By: *Arnold Hall*

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

nc department of health and human services

Private Well Information and Use Recommendations

For Inorganic Chemical Contaminants

County: DURHAM

Name: JOHN D GRAY

Sample ID #: ES101415-0025001

Reviewer: P. EATON

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 1 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.