



DELAWARE DEPARTMENT OF
NATURAL RESOURCES AND
ENVIRONMENTAL CONTROL



DELAWARE HEALTH
AND SOCIAL SERVICES
Division of Public Health

Community Meeting

**Delaware Department of Natural Resources
and Environmental Control**

Division of Water

Division of Waste and Hazardous Substances
and the

Delaware Department of Health and Social Services

Division of Public Health

will host a community meeting regarding proposed
private well testing in the Town of Little Creek.

When: 7 p.m., Thursday, Dec. 28, 2023

Where: Little Creek Fire Hall

311 Main Street,

Little Creek, DE 19961

For more information, contact:

DNREC Division of Waste and Hazardous Substances

Ombuds Kat Caudle

katherine.caudle@delaware.gov

302-395-2604



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Agenda – 12/28/2023

- Introductions of DNREC and DHSS
- Why we are meeting
- What is PFAS
- PFAS and Health
- Possible Results and Response
- What are the options
 - Short term
 - Long Term
- Our request



Who we are:

-  Todd Keyser, Hydrologist - Waste and Hazardous Substances
-  Kat Caudle, Ombuds - Waste and Hazardous Substances
-  Amber Bataille, Hydrologist - Water
-  Sandi Spiegel, Deputy Chief - Public Health
-  James Hanes, Environmental Scientist - Public Health
-  Abby Storm, Epidemiologist - Public Health
-  Kevin Cottman, Environmental Health Specialist - Public Health
-  Marissa Jacobi, Program Administrator - Public Health



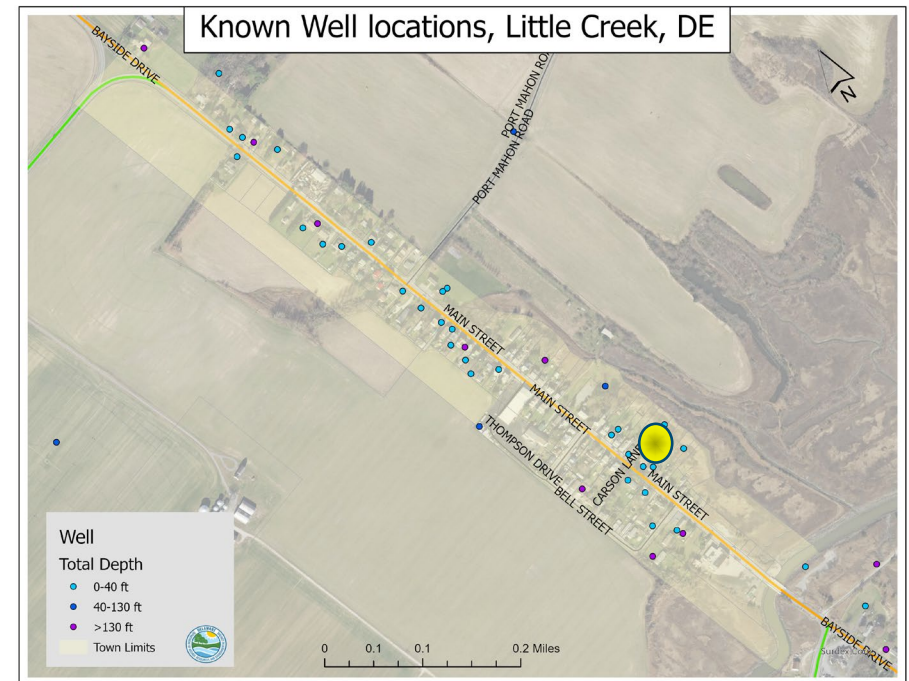
Why we are meeting:

Laboratory Data

- Glenn Gauvry had his well tested for per- and polyfluoroalkyl substances (PFAS) more info on following slides
- The results were above proposed regulatory levels
- DNREC sampling- similar results

Local Geology

- Private wells in Town of Little Creek
- Shallow wells
- Shallow groundwater

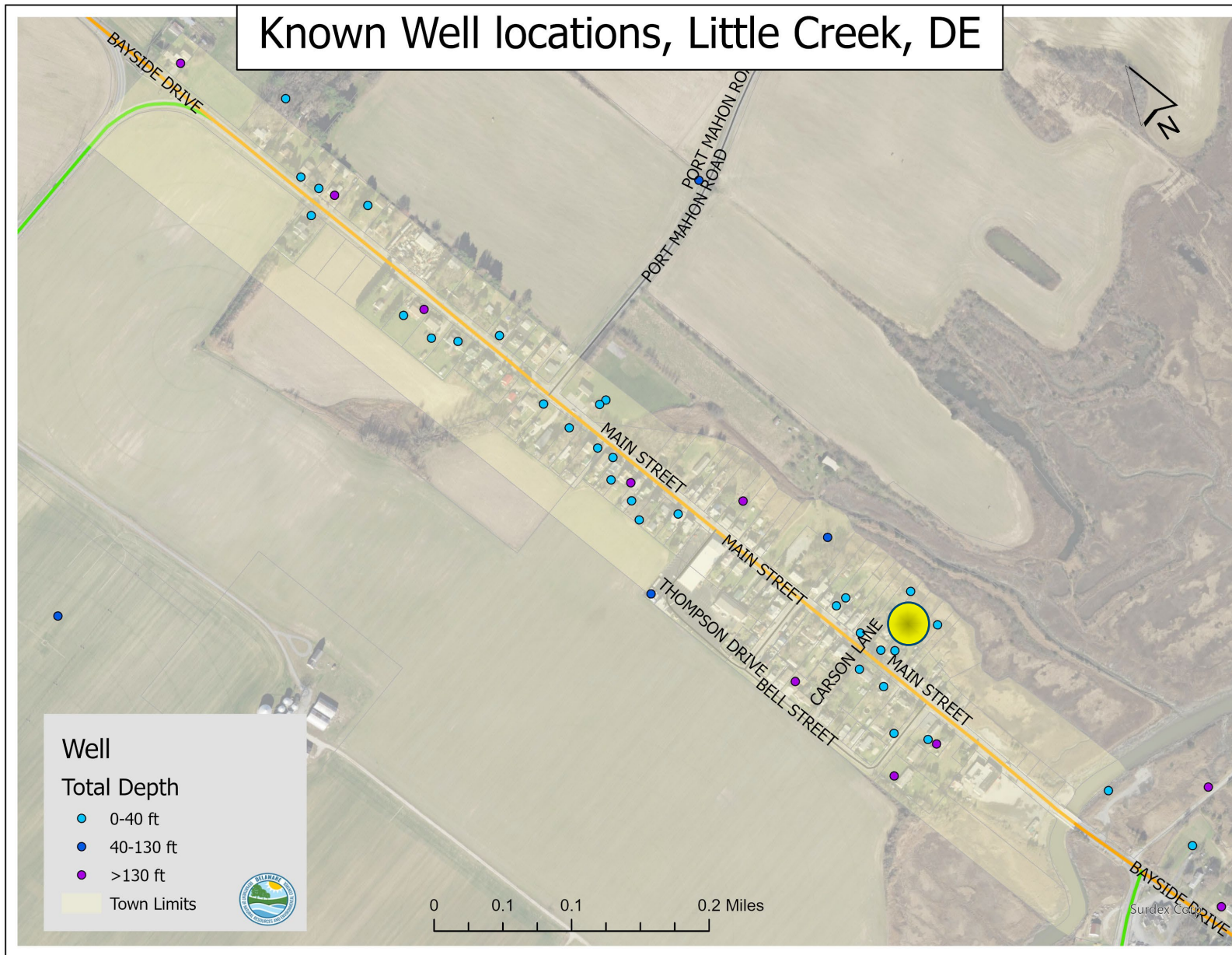


What is PFAS?

- Per- and polyfluorinated substances (PFAS) are human-made chemicals that have been used since the 1940's
- They have wide-spread use in consumer and industrial products such as nonstick coatings, firefighting foams, waterproofing, and more
- PFAS are often referred to as “forever chemicals’ as some take over 1000 years to degrade
- There are over 9000 PFAS compounds. Some of the most well known include PFOS, PFOA, and GenX



Known Well locations, Little Creek, DE



12/28/2023

Little Creek Private Well Sampling Meeting



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PFAS and Health

- Some studies have shown that exposure to some PFAS compounds at high levels:
 - Classified as a “possible carcinogen”
 - May affect the liver function and increase cholesterol levels
 - May increase risk of high blood pressure or pre-eclampsia in pregnant people
 - May result in lower birth weights
 - Most people in the US are regularly exposed via multiple pathways and have detectable levels of PFAS in their blood
 - Overall levels in blood samples have been decreasing since 2002



Options for solutions – Need Data

Short Term – Provide as needed

- Point of use carbon filtration
- Provided by DNREC and DHSS
- Follow up meeting

Long Term – Feasibility Study

- Whole house water filtration – short and long-term costs
- Deeper well to replace any impacted wells
- Interconnection and water line



Sampling list -

- PFAS (per and polyfluoroalkyl substances)
- *E.coli*
- *Total Coliform*
- *Nitrate*
- *Nitrite*
- *Iron*
- *Fluoride*
- *Alkalinity*
- *pH (acidity)*
- *Chloride*
- *Sulfate*
- *Sodium*
- *Hardness*

(all part of private well test kit)



Our Request

May we sample your well?



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Sign Up Online

Thank you for taking the time to fill out this information card. The information obtained here will be used to ensure well sampling happens as quickly and efficiently as possible.

Name (first and last): _____

Local Address: _____

Daytime Phone #: _____ Evening Phone #: _____

Preferred Email Address: _____

May we sample the water at your home, for the purposes of gathering data on private wells in Little Creek?

- Yes, please sample the water in my home.
- No, I do not want the water at my home to be sampled.
- I need more information, please.

If you answered yes, please fill out the back of this card. If you answered no, please turn your card in to the presenting team.

What hours during the day could you be available for well testing (Circle all that apply) that requires access to an indoor faucet.

7a-9a 9a-11a 11a-1p 1p-3p 3p-5p Other: _____

May we call you to schedule your well sampling? Which number is the best to reach you?

Do you have an outside spigot that is easily accessible in December/January? An alternative to indoor testing is using an outdoor spigot to collect water.

- Yes, my outdoor spigot is accessible and water may be collected from it
- No, I do not have an accessible outdoor spigot for water collection.

What is your preferred method of contact for updates (circle all that apply)?

E-Mail Daytime Phone Evening phone Text (let us know which number) Other: _____

Do you currently have any treatments for your well? If yes, please list them below.

If you have any questions please contact Kat Caudle | DNREC-WHS | Ombuds | Katherine.Caudle@Delaware.gov | 302-395-2604



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Resources

- Department of Natural Resources and Environmental Control (DNREC) de.gov/pfas
- Agency for Toxic Substance Disease Registry – Center for Disease Control (ATSDR- CDC) <https://www.atsdr.cdc.gov/pfas/resources/index.html>
- Department of Health and Social Services (DHSS) <https://dhss.delaware.gov/dhss/dph/hsp/files/PFOAPFOSFactsheet.pdf>
- Department of Health and Social Services (DHSS) <https://dhss.delaware.gov/dph/lab/privdw.html>
- Environmental Protection Agency (EPA) www.epa.gov/pfas
- Well Owner Resources- <https://wellowner.org/>
- Several handouts available via email request



We welcome your questions!

Our plan is to start sampling 1/8/2024.

Data will return from the lab in a month.

We will schedule a follow up meeting once we have data from laboratory.

Limited handouts tonight
If you would like emailed copies, contact:
Katherine.Caudle@delaware.gov

