Clean Water Ambassador Meeting

April 28, 2022

How to ask a question

Type your question into the chat.

Click the “hand” icon at the top of your screen.

Type #2 to raise your hand.

Agenda

Welcome and Review of Agenda
Anita Singh, EGLE

EGLE Updates
Emily Posthumus, EGLE

Contamination Investigation Program
Chloe Morey, EGLE

Ambassador Updates & Discussion

Wrap up & Reminders
Emily Posthumus, EGLE

Updates from EGLE

Emily Posthumus, EGLE

Building Michigan Together Plan

- Historic $5 Billion investment to rebuild Michigan's infrastructure.
- Includes nearly $2 billion to address critical water infrastructure needs
- Over $1 billion for drinking water improvements
  - Lead Service Line Replacement - $325 million
  - PFAS and Emerging Contaminants - $55 million
  - Assistance to small and disadvantaged communities - $43 million

Updates & Reminders

- EGLE has changed its website to make it more intuitive and user friendly. Reach out to us with any questions on navigation.

- Comment period for MI Environmental Justice Mapping and Screening Tool is open until May 16. Visit Michigan.gov/EnvironmentalJustice for more information.

Upcoming Events

- Drinking Water Week (May 1 -7)
  - Michigan.gov/DrinkingWaterWeek has resources on drinking water and activities for kids (EGLE Classroom has even more)
  - Great opportunity to spread information on drinking water – please share materials on social media!
- Great Lakes Infrastructure Conference (May 10 - 11)
  - Free and virtual. Check out the sessions offered!
- Upcoming CWA Meetings:
  - May 26 – Action Level Exceedances
  - June 30 – Consumer Confidence Reports

Contamination Investigation Program

Chloe Morey

EGLE Source Water Unit

EGLE

Drinking Water Contamination Investigation Program Area Assignments

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Michigan.gov/EGLE

Michigan Department of Environment, Great Lakes, and Energy
January 2022

Drinking Water and Environmental Health Division

Contamination Investigation Program

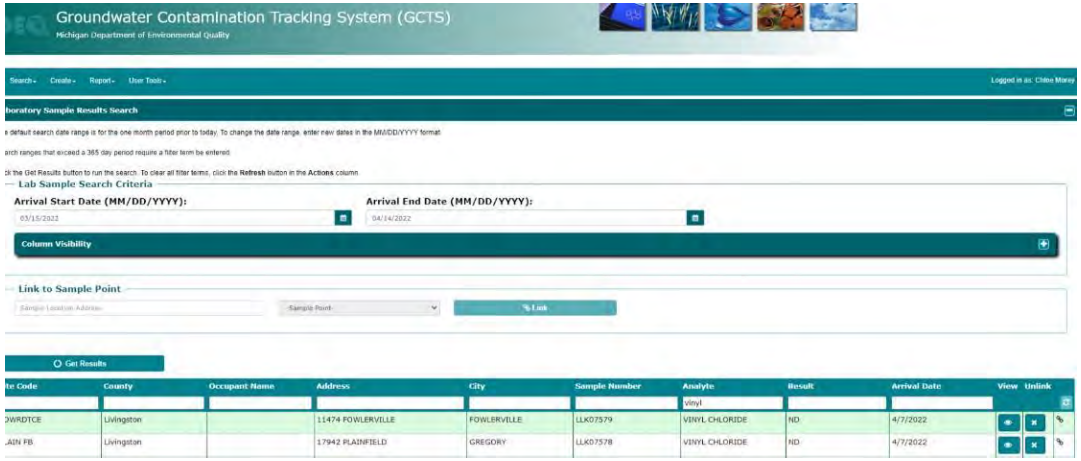
- Monitoring vs. Investigation
  - Long Term Monitoring Program
- Funded by the Remediation and Redevelopment Division (RRD)
  - Yet housed in the Drinking Water & Environmental Health Division (DWEHD)
    - Focus on public health rather than remediation
    - Close interactions with local health agencies
- Temporary and Long-Term Solutions
  - Bottled Water
  - Alternative Water Projects
    - Well Replacements or Community Water Hookups

Types of Contamination Sites

- Part 201
  - Dry Cleaners, Industrial sites, etc.
- Part 213 Leaking Underground Storage Tank (LUST)
  - Gas Stations, Farms, etc.
- Superfund
  - Landfills, Chemical Plants, etc.
- Oil and Gas
  - Brine wells, Crude Product Spills

Long Term Monitoring Program

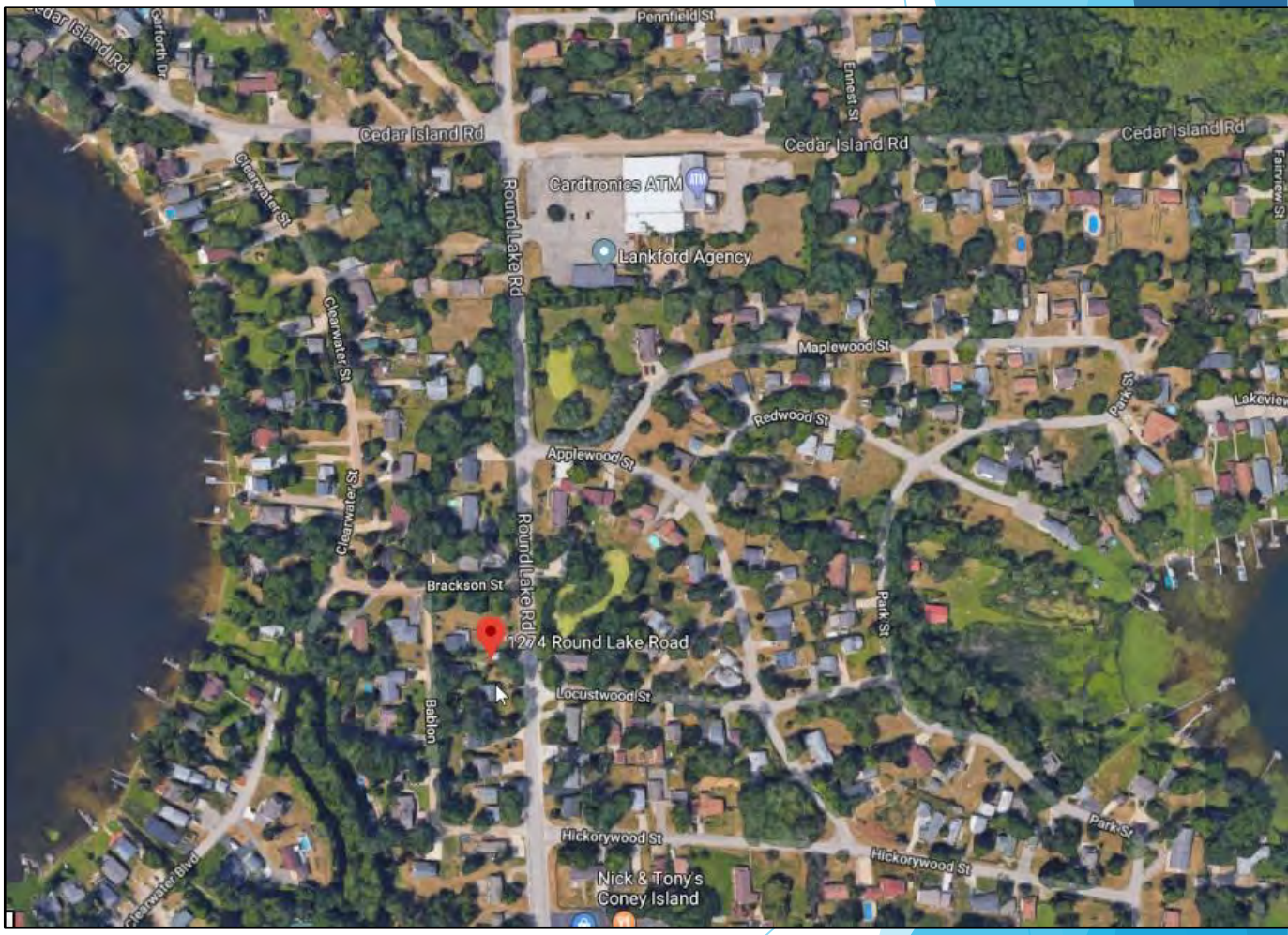
- Collaborative between RRD, DWEHD, & Local Health Departments (LHDs)
- LHD collects samples
- State Drinking Water Lab analyzes samples
- CIP “links” data in our Groundwater Contamination Tracking System



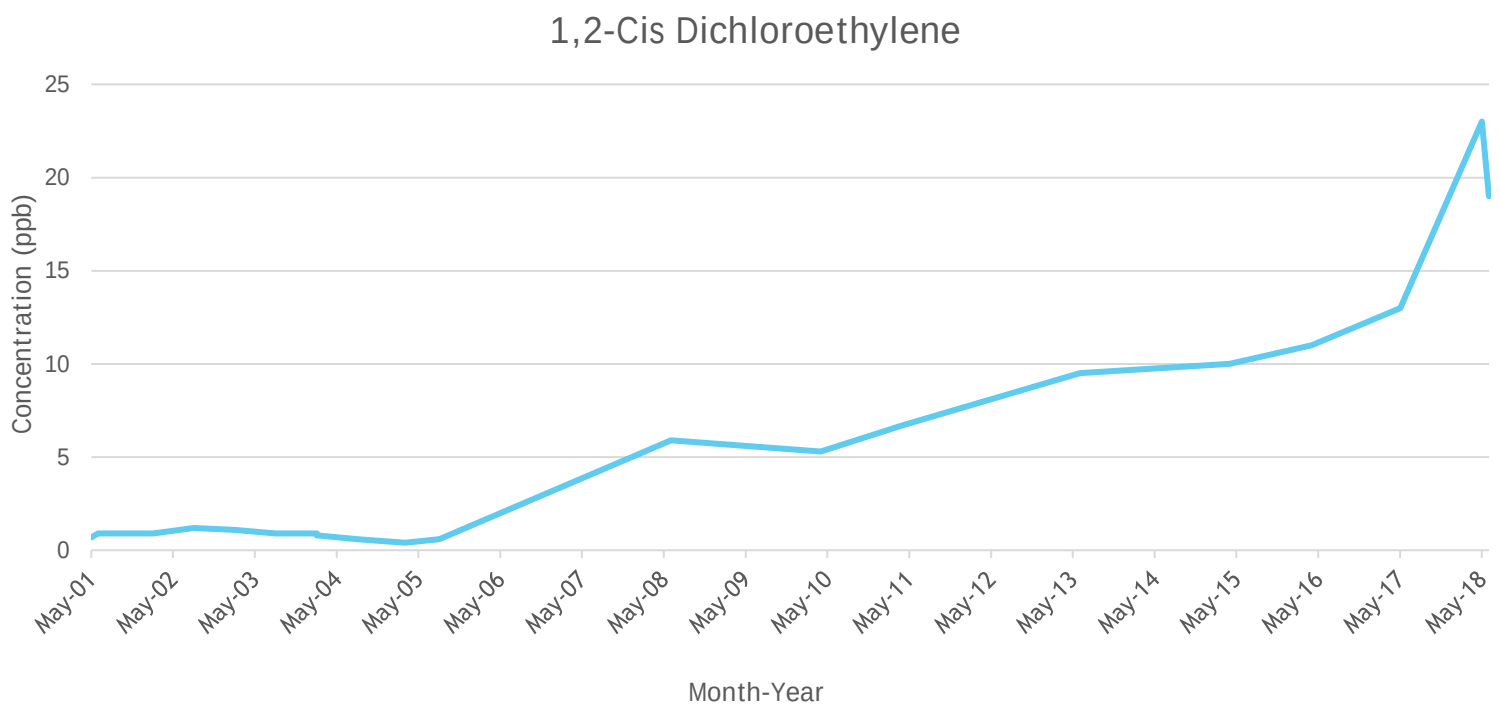
Contamination Investigation Program – Local Health Departments

- Every LHD shall have a detailed policy/procedure for permitting wells in areas of contamination.
- CIP can assist in:
  - New well location
  - Construction Specifications
  - Investigation of contamination in new wells
- Collaborate with LHD's for state funded well replacements

Case Study One



Increasing levels over time

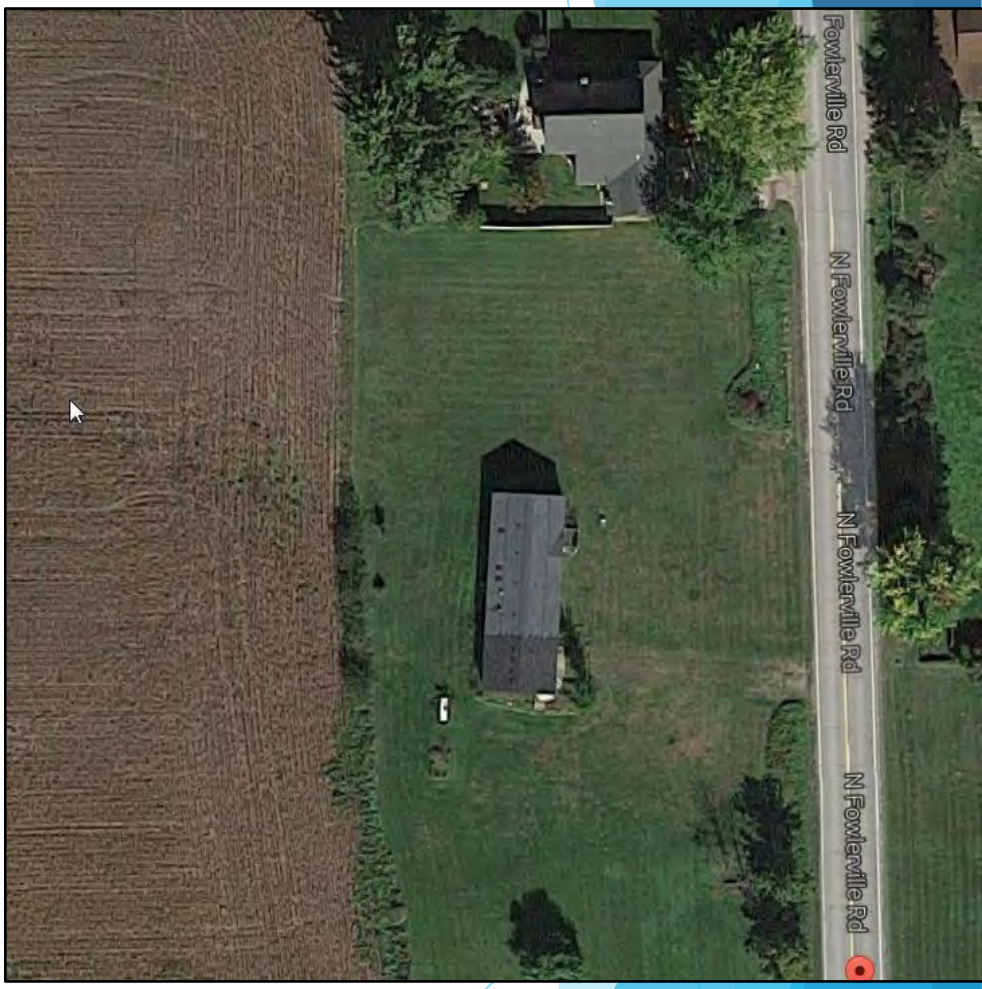


Well is replaced

- Summer of 2018 Vinyl Chloride was detected at 21 ppb (MCL is 2ppb)
- Bottled water offered
- Replacement well drilled Fall 2018
- Existing well was driven in the basement, approximately 15 ft deep.
- New well was 241 ft deep and Vinyl Chloride was non-detect!

Case Study Two: "The Dry Hole"

- Near old gas station
- TCE above MCL
- New well to be deeper and further to the west, and set in bedrock
- Existing well was 40 feet deep in glacial till.



First Attempt

Lenawee County: dist & direction

Lat 42.76452

Long 084.08934

Elev 895

Acc 29'

Longitude: ____ Latitude: ____

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
SAnd	0	4
Yellow Clay	4	12
Grey Clay	12	28
SAnd & Gravel	28	38
Grey Clay	38	76
Shale	76	147
SAnd Stone	147	177
Shale	177	185
SAnd Stone	185	202
Sand stone & Shale	202	218

Address Same As

4 WELL DEPTH:

5 DRILLING METHO

6 USE:
Domestic Irrigatio

CASING:
Diameter 4"
Diameter

Grouted Drill Ho

9 STATIC WATER LE

10 PUMPING LEVEL:
ft. after
ft. after

11 WELL HEAD COM

12 WELL GROUTED
From to
bages of cement.

13 Nearest source of
Type
Well disinfected up

14 PUMP:
Manufacturers nam
Model number
Length of Drop Pip
Type:
PRESSURE TANK
Manufacturers Nam
Model Number

Well #1 = Dry hole

Formation Description	Thickness	Depth to Bottom
Sand	4.00	4.00
Yellow Clay	8.00	12.00
Gray Clay	16.00	28.00
Sand & Gravel	10.00	38.00
Gray Clay	38.00	76.00
Shale	71.00	147.00
Sandstone	30.00	177.00
Shale	8.00	185.00
Sandstone	17.00	202.00
Sandstone & Shale	16.00	218.00

Casing Type: Steel - black
Casing Joint: Threaded & coupled
Casing Fitting:

Diameter: 4.00 in. to 152.00 ft. depth

Borehole: 9.00 in. to 152.00 ft. depth
3.25 in. to 218.00 ft. depth

Well #2 = Production

Formation Description	Thickness	Depth to Bottom
Sand	4.00	4.00
Yellow Clay	8.00	12.00
Gray Clay	15.00	27.00
Sand & Gravel	8.00	35.00
Gray Clay	40.00	75.00
Shale	83.00	158.00

Casing Type: Steel - black
Casing Joint: Threaded & coupled
Casing Fitting:

Diameter: 4.00 in. to 80.00 ft. depth

Borehole: 9.00 in. to 80.00 ft. depth
3.87 in. to 158.00 ft. depth

Community Water Connection

- Connection to an existing supply or the extension of a supply
- Can be several homes at once
- Contract held and managed by the community such as a city or township
- Homeowner must agree to the proper abandonment of their existing well

What about your own well?

- Environmental Mapper https://www.mcgi.state.mi.us/environmentalmapper/
- Wellogic https://www.egle.state.mi.us/wellogic/
- Water Well Viewer https://www.mcgi.state.mi.us/waterwellviewer/
- Your Local Health Department
  - Well permit records
  - Local groundwater concerns
  - Sampling questions

Questions?

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Open Discussion & Updates from Ambassadors

Thank you, Ambassadors!

Don’t forget to check out everything happening in May and share information from Drinking Water Week with your friends, family, and community!