PFAS Contamination

Marinette, Peshtigo, and Surrounding Communities

Listening Session 8

May 20, 2020

WISCONSIN DEPT. OF NATURAL RESOURCES

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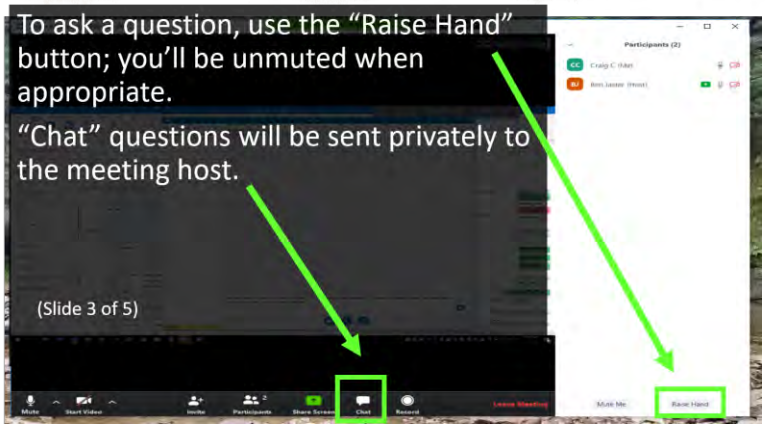
What to Expect from this Listening Session

'Zoom' Technology

- All attendees are automatically muted when they join the call
- If you are joining by web:
  - **<u>During the presentation</u>** – use **'chat'** feature to type questions
  - **<u>After presentation</u>** – use the **'chat'** feature *or* **'raise hand'** feature to request to be unmuted to ask a call
- If you are joining by phone:
  - Write questions down and contact us later (next slide)



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What is a Listening Session?

Ongoing and open communication regarding the details of the PFAS contamination in these communities

- 8th in series of sessions
  - Meetings every other month
  - Next meeting in July
- Other options for contacting DNR
  - Call (888-626-3244) or
  - email DNRJCIPFAS@wisconsin.gov
- Also – check out website and FAQs https://dnr.wi.gov/topic/Contaminants/Marinette.html

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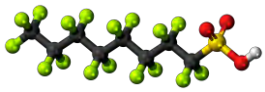

Welcome and Agenda

Presentation:

- Overview: PFAS Chemicals
- Overview: Addressing PFAS Contamination
  - *Evening Session Only – PFAS in Air*
- Update on Site Investigations
- Upcoming Important Dates

Listening Session:

- Question + Answer Session

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What are PFAS?

per- and polyfluoroalkyl substances (PFAS)

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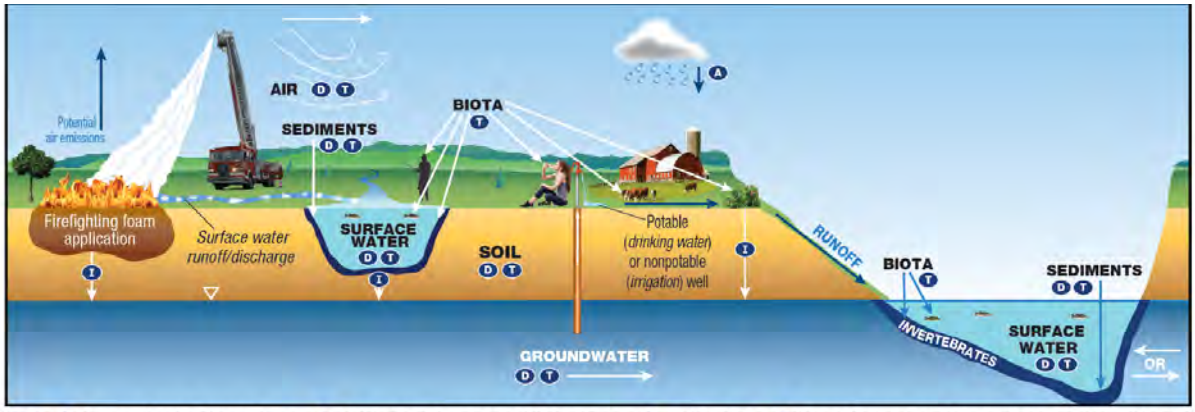

Figure 1. Conceptual site model for fire training areas.

- Groundwater
- Stormwater runoff
- Surface water
- Air
- Biosolids
- Others (construction and waste)

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PFAS Activities in the Air Management Program

Gail Good
Program Director, Air Management
WI Department of Natural Resources

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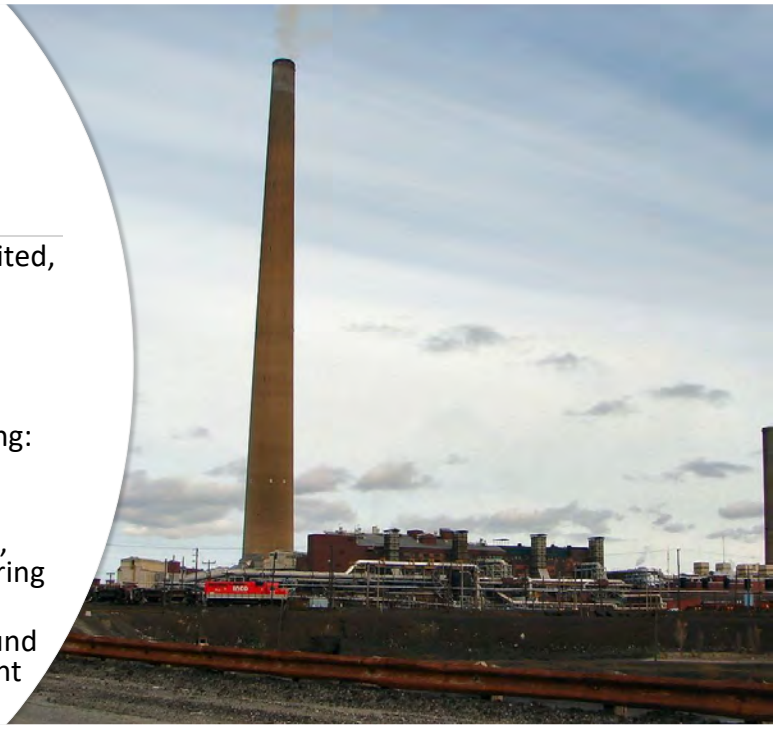
Current Work in Air Program

- Air fate and transport science is limited, but growing at this time
- EPA prioritizing development of monitoring methods and stack test methods
- Air program charter project exploring:
  - Types of sources that may be potential air emitters
  - Current science on stack testing, control technology, and monitoring
  - WDNR ability to contribute to growing science, especially around monitoring method development



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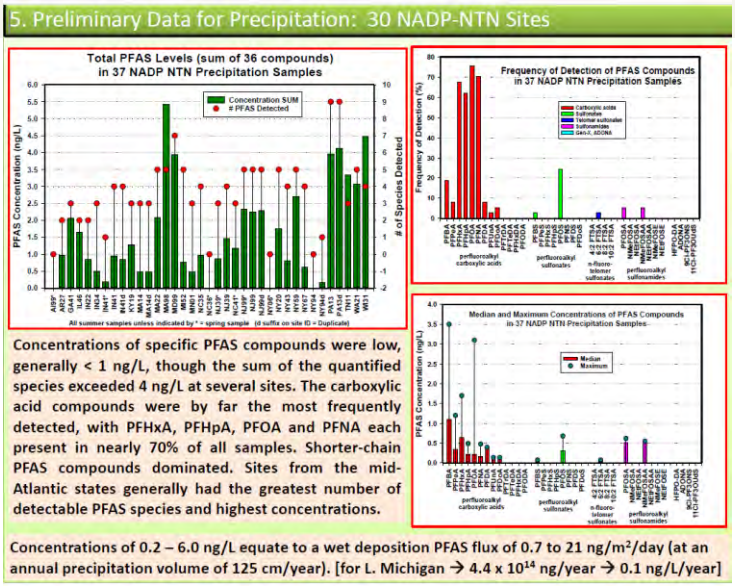

NADP Rainwater National Study

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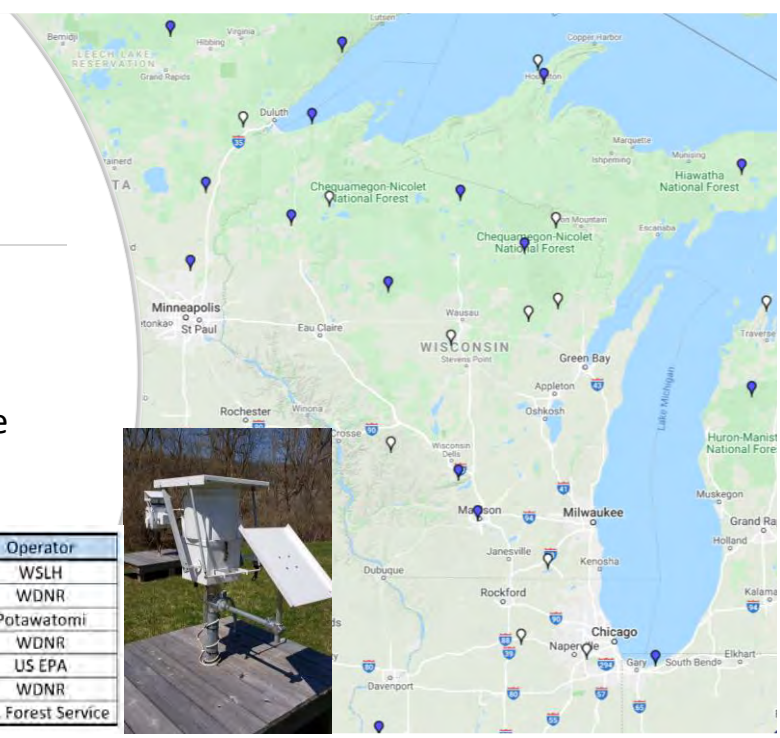
Wisconsin National Trends Network

- 7 Active sites in WI
- Precipitation is collected weekly
- Total of 263 sites nationwide



NTN Site ID	Site Name	Location	Operator
WI06	UW-Arboretum	Dane County	WSLH
WI08	Brule River	Douglas County	WDNR
WI10	Potawatomi	Forest County	Potawatomi
WI31	Devil's Lake Park	Sauk County	WDNR
WI35	Perkinstown	Taylor County	US EPA
WI36	Trout Lake	Vilas County	WDNR
WI37	Spooner	Washburn County	U.S. Forest Service

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Study Details

- MOU with the WI State Lab of Hygiene
  - Dr. Martin Shafer leading method development
- Products of the collaboration will be used to conduct similar studies in other states
  - Monitoring Plan
  - Quality Assurance Project Plan
  - Training materials

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Project Benefits and Goals

Benefits:

- State Lab of Hygiene already receives NTN samples
- Minimal change in collection procedure
  - 1st samples collected for project on April 28th
- No additional collection equipment needed
- Geographically diverse sample network

Goals:

- To better understand PFAS atmospheric dispersal
- Improve and develop additional methods for PFAS analyses in air

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Gail Good,

Program Director Air Management Program

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PFAS in Marinette, Peshtigo, & Surrounding Communities

What is a Site Investigation?

- Responsible parties must follow the process laid out in state law
- Each Case is at a different stage in their investigation (x 4 cases)
- Iterative Process

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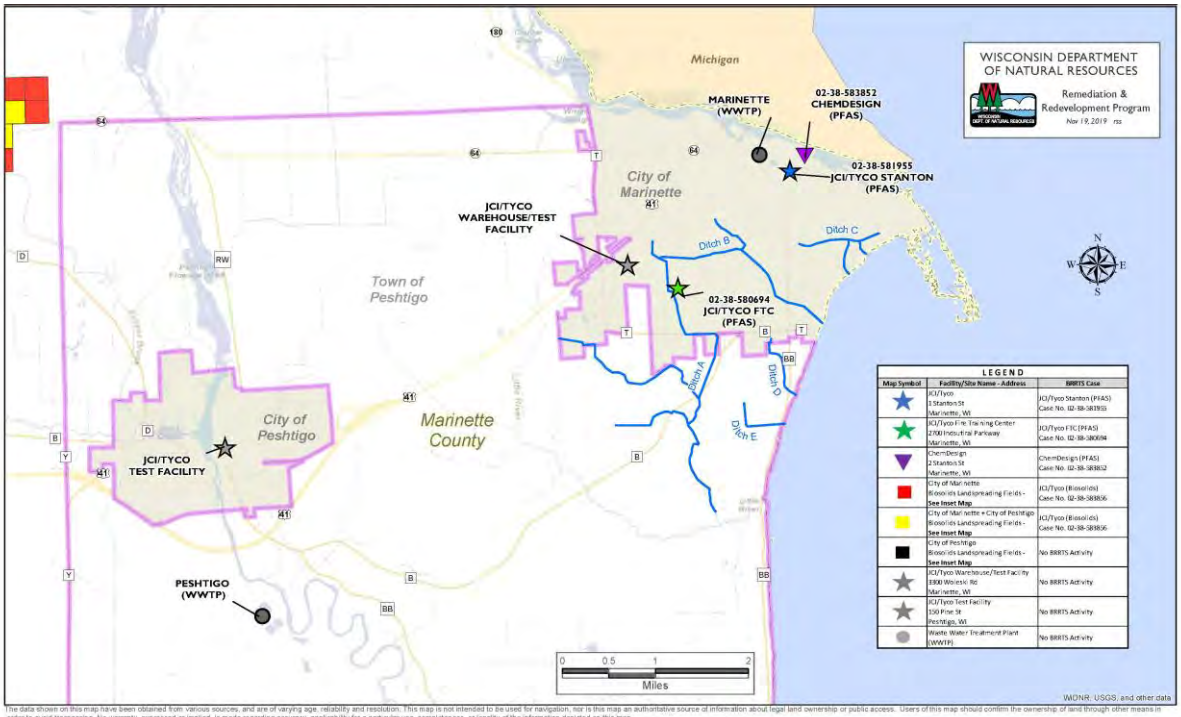

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COVID-19

- Responsible parties must maintain compliance with laws
- Department-wide process for requesting variance of regulatory deadlines
- JCI/Tyco applied for 'variance' in regulatory timelines for Biosolids Landspreading Fields and FTC

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COVID-19 Compliance Requests – Biosolids Landspreading Fields

Two Requests:

1) Temporary pause in sampling in potable wells around biosolids fields
2) Temporary pause in confirmation sampling at potable wells > 20ppt

JCI/Tyco indicated to DNR that they would resume sampling activities this week.

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COVID-19 Compliance Requests – FTC

4 Items in Request

1) Quarterly Potable Well Sampling (regular monitoring)
2) Expanded Potable Well Sampling
3) Field sampling (non-drinking water media)
4) Reports and submittals

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COVID-19 Compliance Requests – FTC

1) Quarterly Monitoring

- JCI/Tyco request to suspend spring quarterly sampling in potable wells
  - History of data
  - Alternative water or treatment systems in place
- DNR approves – quarterly sampling to resume during summer sampling event

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COVID-19 Compliance Requests – FTC

2) Expanded Potable Well Sampling

- Not approved
- No history of data
- No alternative water or water treatment systems in place
- Sampling can at a minimum be completed at outside ports
- Bottled water could be supplied where homeowners do not want sampling in-home

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COVID-19 Compliance Requests – FTC

3) Field Sampling – Non-drinking water media (e.g. soil, groundwater, surface water)

- Approved for all media except foam

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COVID-19 Compliance Requests – FTC

4) Reports and Other submittals

- Not approved
- No blanket approvals
- Specific requests need to be made for each report or other submittals

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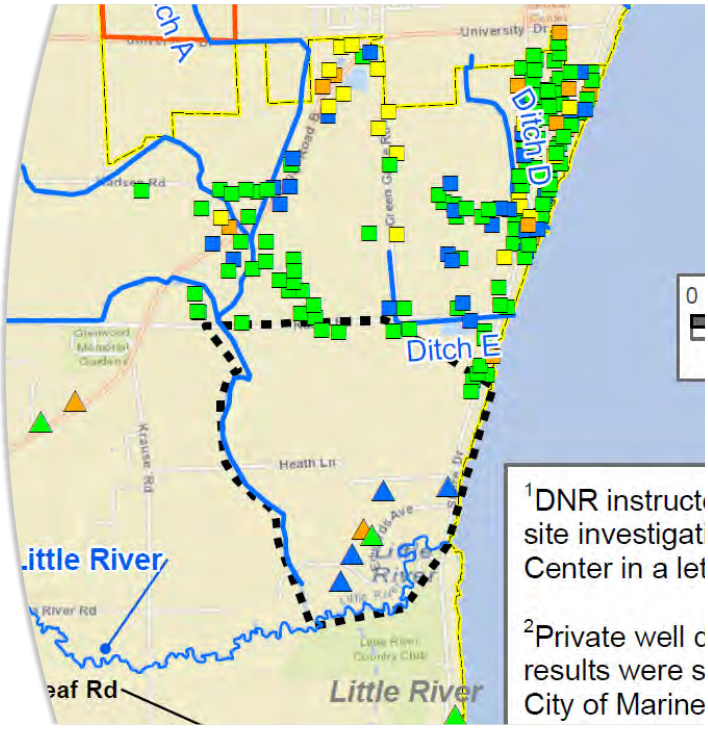
FTC Update

- DNR reviewing JCI/Tyco 'Southern Area' Report – includes Heath Lane and Edwards Ave (see black dotted line on map)
- GW and SW data + JCI/Tyco interpretation of how contaminant is moving through this area
- Still under DNR review



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FTC Update – Drinking Water

- **Long Term Water Options**
  - JCI/Tyco to reimburse City of Marinette up to $75,000 for an study to examine feasibility of extending municipal water lines
  - No communication with DNR
- **Sampling in Expanded Site Investigation Area**
  - Waiting on JCI/Tyco to respond to activities directed under NR 700 to address potable wells
  - Once JCI/Tyco responds DNR can proceed with next steps

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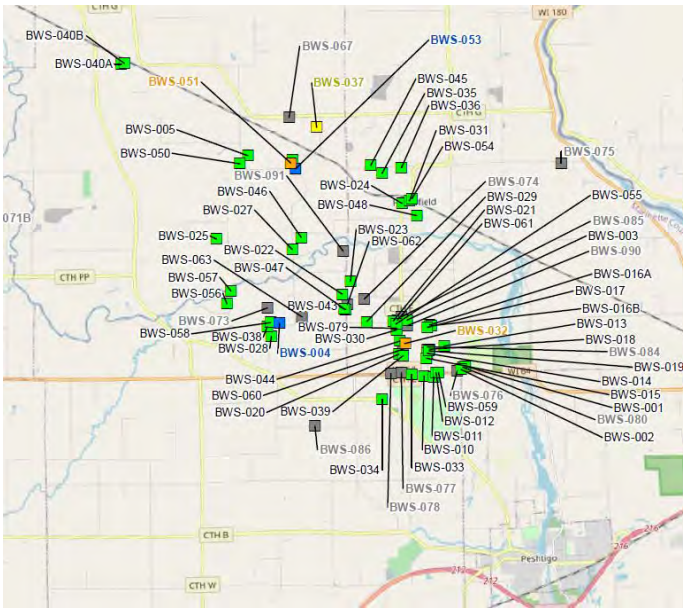
Biosolids Landspreading Fields – Potable Well Sampling

Potable Well Sampling Summary	
Non-detect	74
0 - 20 ppt	17
20 - 70ppt	3
>70 ppt	4
Total	**98**

LEGEND:
Drinking Water Results

- Results Not Available
- PFOA and/or PFOS below reporting limit (RL)
- PFOA and/or PFOS detection – RL < 20 ppt
- PFOA and/or PFOS detection – 20 – 70 ppt
- PFOA and/or PFOS detection above HAL



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Foam on Waterways

- DNR directed JCI/Tyco to:
  - Monitor foam activity daily
  - Install booms
  - Remove foam and have it tested for PFAS for waste characterization

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Waste Water Permitting

Heidi Schmitt Marquez
Waste Water Field Supervisor – NER

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WPDES Permits – Overview

- Wisconsin Pollution Discharge Elimination System
- "Wastewater Permit" issued by DNR to industrial and municipal facilities
- Permits contain monitoring requirements, reporting and compliance schedules, contaminant discharge levels

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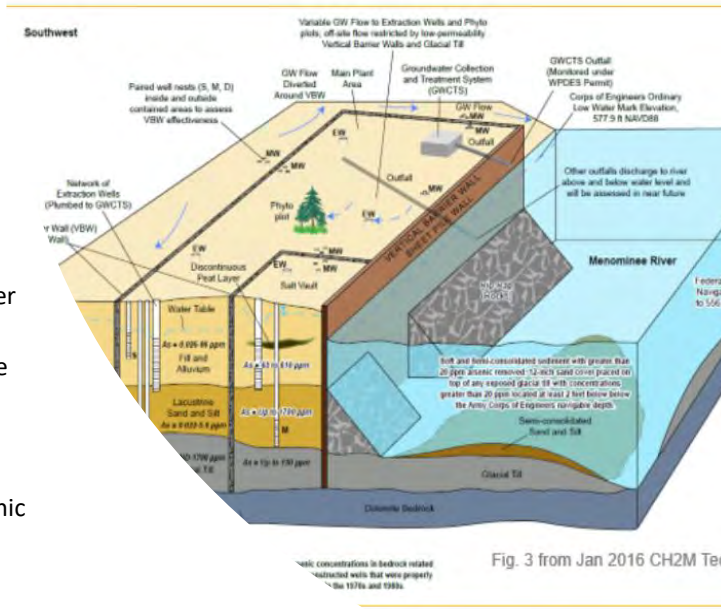
WPDES Permits – JCI/Tyco Facilities Stanton St Campus

- Tyco Fire Products WPDES permit re-issuance process initiated
- Proposed effective date Oct 1, 2020
- For discharge into Menominee River and other discharge locations
- Public comment period for permit re-issuance in June for 45 days
- Establishes limits for PFOS and arsenic (no PFOA limit)
- Testing required for PFOA and PFOS and arsenic
- DNR will issue Gov Delivery reminder when public comment period is open



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WPDES Permits – Fire Technology Center

- For stormwater discharge associated with construction – new building on-site
- BMPs rather than monitoring requirements
- Site erosion control plan
- Inspection of erosion and sediment controls
- Weekly written reports of inspections

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Upcoming Important Dates

May

- DNR provides technical comments on FTC 'Southern Area' Investigation Report (Health Lane Area)
- JCI/Tyco to resume potable well sampling around biosolids fields

June

- DNR review of JCI/Tyco submittals
- Waste water public comment for WPDES permit

July

- July 15th – Next Listening Session

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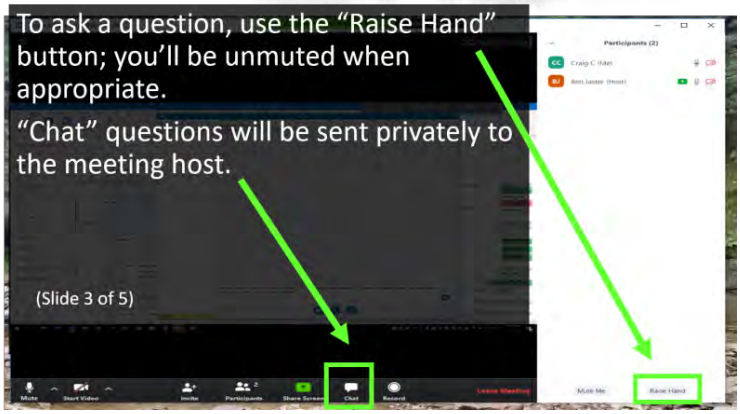
Ground Rules – Listening Session

- Use the **'chat'** feature *or* **'raise hand'** feature to request to be unmuted to ask a call
- 3-mins per person → everyone has the opportunity to voice concerns
- Keep comments constructive
- Attack the problem not the person



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