PFAS Contamination Marinette, Peshtigo, and Surrounding Communities

Listening Session 10 – September 16, 2020

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:
  - During the presentation – use ‘chat’ feature to type questions
  - After presentation – 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 (1-888-626-3244)

To ask a question, use the “Raise Hand” button; you’ll be unmuted when appropriate.

“Chat” questions will be sent privately to the meeting host.
Team Members

**DNR - Remediation and Redevelopment**
- Bridget Kelly, Emerging Contaminants
- Christine Haag, Director
- Trevor Nobile, Field Operations Director
- Jodie Peotter, BOP Section Chief
- Jenna Soyer, Program and Policy Operations Director
- Dave Neste, Hydrogeologist
- Roxanne Chronert, NER Supervisor

**DNR - Drinking Water And Groundwater**
- Kyle Burton, Field Operations Director

**DNR - Water Quality**
- Heidi Schmitt-Marquez, NER Supervisor
- Alexis Peter – Waste Water Specialist
- Laura Gerold – Wastewater Engineer

**Department of Health Services**
- Brita Kilburg-Basnyat, Toxicologist
- Amanda Koch, Health Educator

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**FTC Update**
- DNR issued response to JCI/Tyco 'Southern Area' Report
  - includes Heath Lane and Edwards Ave (see black dotted line on map)

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**Biosolids Landspreading Fields**

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**Legend**

- Expanded Site Investigation Area
- Approximate Extent of Southern Area
- Ditches
- JCI/Tyco FTC Property Boundary
- JCI/Tyco Stanton St Property Boundary
- Municipality Boundary

<table>
<thead>
<tr>
<th>Map Symbol</th>
<th>Facility/Site Name - Address</th>
<th>BRTP Case</th>
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<tbody>
<tr>
<td></td>
<td>JCI/Tyco 1 Stanton St</td>
<td>JCI/Tyco Stanton (PFOS) Case No. 02-36-56915</td>
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<td>Marinette, WI</td>
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<td>JCI/Tyco FTC Property</td>
<td>JCI/Tyco FTC (PFAS) Case No. 02-36-569004</td>
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<td>Property Boundary</td>
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<td></td>
<td>ChemDesign 2 Stanton St</td>
<td>ChemDesign (PFAS) Case No. 02-36-569052</td>
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<td>Marinette, WI</td>
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| biosolids Landspreading Fields |

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1. CNR instructed JCI and Tyco to expand the site investigation area at the Fire Technology Center in a letter dated February 19, 2023.

2. Private well data submitted to DNR. Sample results were submitted by private well owners, City of Marinette, and DNR’s contractor.

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**Note:** This image contains a map with various symbols and labels indicating the location of biosolids landspreading fields.
Where Can I find Additional Information?

- PFAS 101
- Details regarding site investigations
- Previous Zoom recordings – meetings 7 and 8
- Website: https://dnr.wi.gov/topic/Contaminants/Marinette.html
  - DNR homepage – search ‘PFAS Marinette’

Staying Connected

- Today - 10th in series of sessions
  - Meetings every other month
  - Next meeting in November
- 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

- Subscribe for updates:
Welcome and Agenda

Presentation:
• Deer Tissue Study – Guest Speaker Sean Strom, Fish and Wildlife Toxicologist
• DNR Private Potable Well Sampling in Expanded Site Investigation Area
• Recent Surface Water Sample Results – Ditches A + B
• Upcoming Important Dates

Listening Session:
• Question + Answer Session

PFAS in Deer from the JCI/Tyco Fire Technology Center (FTC)

Sean M. Strom, Toxicologist
WI Dept of Natural Resources
PFAS in Deer

• What do we know?
  • Michigan has reported PFAS results on nearly 150 deer
  • Many from sites contaminated with PFAS
  • Only 1 deer had PFAS levels that warranted an advisory

PFAS in Deer

• Local concern regarding potential PFAS contamination of deer
• DNR designed study to assess PFAS levels in local deer
• Work with Dept of Health Services to evaluate need for any advisory
Study Details

- 20 deer harvested from JCI/Tyco FTC in February 2020
- Muscle, heart, and liver samples analyzed for PFAS
- 12 muscle samples collected from deer harvested in Price county
  - Opportunistically collected from deer heads submitted for CWD testing

Results - Muscle

- Only one deer from JCI/Tyco had detectable levels of PFAS (PFOS) in muscle
- The PFOS concentration in this one deer was low and below any PFOS consumption guidelines
- No consumption advisory is needed for muscle tissue (venison) for deer from this area
- No PFAS was detected in the deer collected from Price county
Results - Heart

• The only PFAS detected in heart was PFOS, and was detected in 2 deer
• The observed PFOS levels in the 2 heart samples were very low
• No consumption advisory for heart is necessary for deer harvested from this area

Results - Liver

• Six different PFAS compounds were detected in liver
• All 20 liver samples had detectable levels of PFOS (3.8–92.0 ppb)
• The liver functions to filter contaminants from bloodstream – so higher PFAS in liver was not unexpected
Results - Liver

- Consumption restrictions begin when PFOS concentrations are >10 ppb
- 11 of the 20 liver samples had PFOS levels exceeding 10 ppb
- Liver can accumulate other contaminants in addition to PFOS
- *Recommend hunters Do Not Eat liver from deer harvested from this area*
Conclusions

• No PFOS-based consumption advisories needed for muscle or heart of deer from this area

• **Recommend hunters Do Not Eat liver of deer harvested from a 5-mile radius of the JCI/Tyco FTC**

• The 5-mile radius is estimated to be the maximum travel/dispersal range for deer

Additional Information

• Analytical results, press release, and advisory information can be found on the DNR webpages

• On DNR homepage: Search *PFAS Marinette* → follow link to webpage

• Deer information will be linked under **Actions Tab**
Potable Well Sampling

Background

- DNR request to JCI/Tyco → sample additional potable wells in the Expanded Site Investigation Area accordance with state law
- JCI/Tyco refused
- DNR will identify if there is risk of PFAS exposure through drinking water
DNR Potable Well Sampling Plan – Eligibility

Eligible wells:

- Potable wells in the defined sampling area (blue dotted line)
- Drinking water wells only (e.g. no irrigation wells, livestock wells, etc.)
  - Some exceptions

How will I know if my well is within the sampling area?

- Informational packets will be sent to all properties within the sampling area with an ‘improved value’ on their property tax record
DNR Potable Well Sampling Plan – Well Owner Packets

• Packets will be sent to all properties with an ‘improved value’ on property tax record
• Packets will be sent week of 9/21 and 9/28
• All Packets received by 10/2/2020
• Packets will include:
  1) Letter (from DNR and contractor, Wood)
  2) Map and FAQs
  3) Well Survey (questionnaire) → request for information about your well
  4) Access Agreement

DNR Potable Well Sampling Plan – Well Survey + Access Agreement

• Documents need to be returned via email (scanned copy) or USPS (pre-paid postage)
  1) Well Survey (questionnaire)
     • Requests information about the well(s) on well owner’s property
  2) Access Agreement
     • Gives permission to DNR’s contractor (Wood) to sample your well

Return ASAP - no later than October 23rd
DNR Potable Well Sampling Plan – Sampling

• Boots on the ground October 12
• Sampling coordinated with well owners as agreements are received
• Samples from outside spigots where possible (some exceptions)
• Water analyzed for 36 PFAS
• Sampling completed in 4-8 weeks
• COVID 19 considerations

DNR Potable Well Sampling Plan – Results Reporting + Next Steps

• Sample results will be mailed to well owners within 10-days of receipt of data from lab (about 30 days after sampling)
• Sample results ≥ 20ppt PFOS + PFOA → well owners called within 24-hrs of receipt of data
• Sample results ≥ 20ppt PFOS + PFOA → well owners will be set up with an alternative water supply
Alternative Water Supply

- Water supplied on a temporary basis
- Water supplied to well owners with sample results exceeding current recommended health standards (PFOA + PFOS)
- DNR will continue to pursue actions with Responsible Parties

DNR Potable Well Monitoring Schedule – Summary

- Receive Well Survey Mailer
- Respond to Well Survey & Access Agreements
- Field Sampling
- Receive Lab Results

[Graph showing the schedule dates: 9/16, 9/30, 10/14, 10/28, 11/11, 11/25, 12/9, 12/23]
Sample Results: PFOS, PFOA, and ‘Other’ PFAS

- DHS recommended standards for PFOS + PFOA (June 2019)
- DHS is in the process of developing recommended standards for the other 34 analytes (“Cycle 11”) (Fall 2020)
- DNR will review well sample data again after Cycle 11 recommendations have been made

Sample Results – Understanding Potential PFAS Exposures

- Sample results are shared with DHS
- DHS evaluates sample results – well owners will be contacted if sample results warrant additional action
- If you have questions about health impacts related to PFAS sample results
  - Contact DHS at: DHSEnvHealth@dhs.wi.gov
  - Or call: 608-266-1120
• Do I have to pay for sampling?
  • No, DNR is paying for the cost to collect and analyze a sample from your well

• If my well was previously sampled by JCI/Tyco, will it be sampled again?
  • No, the purpose of the sampling is to determine if there are PFAS in drinking water in areas that have not yet been tested

• What if I live outside of the sampling area?
  • At this time, DNR is only testing wells within the defined sampling area

DNR Potable Well Sampling – Additional Resources

• Call 1-888-626-3244

• Email DNRJCIPFAS@wisconsin.gov

• Website and FAQs https://dnr.wi.gov/topic/Contaminants/Marinette.html
Surface Water Sampling Results – Ditches A + B

• JCI/Tyco in sampled in 2018 and 2019

• Surface Water Sampling Results (PFOA + PFOS):
  • Ditch A: max value > 6,000 ppt
  • Ditch B: max value > 4,000 ppt

• JCI/Tyco installed in-stream treatment systems to address high levels of PFAS

Ditch A + B Treatment Systems

• Treatment systems were installed in Ditches A + B in 2019

• Maintained by JCI/Tyco

• Regulated under WPDES permit

• DNR requested downstream sampling
Recent Surface Water Sampling Results – Ditches A + B

Surface Water Sample Results (PFOA + PFOS):
Ditch A: ~ 13 ppt
Ditch B: ~ 1,100 ppt

= In-stream treatment system
= Sample collection Point

Ditch B – Next Steps

• JCI/Tyco preliminary analysis – source of contamination to Ditch B is groundwater

• JCI/Tyco’s proposed plans:
  • Increase capacity of treatment system in Ditch B
  • Develop a system to intercept contaminated groundwater before it reaches Ditch B
  • Additional design and testing will be required – DNR concurrence needed

• JCI/Tyco estimates groundwater interception system ~ 1-yr
Ditch B – Next Steps

In the interim, DNR is directing JCI/Tyco to:

1) Collect and dispose of foam in Ditches A + B until a permanent solution is in place
2) Continue to monitor downstream of treatment systems Ditches A + B (at least quarterly; sample results within 10 days)
3) Review previous sign install and landowner notifications for necessary updates

Source Control FTC – Next Steps

DNR has agreed to discuss long term remedial actions at the FTC with JCI/Tyco in October.
Management of Firefighting Foam Containing PFAS

• As of September 1, 2020, s. 299.48, Wis. Stats prohibits the use of class B firefighting foams that contain intentionally added PFAS
  • When used as part of an emergency firefighting or fire prevention operation; or
  • When used for testing purposes if appropriate containment, treatment and disposal or storage measures are in place
Upcoming Important Dates – NRB Hearing for WA-O6-20E (NR 159)

• Act 101 also requires the DNR to promulgate rules to implement s. 299.48, Wis. Stats., including appropriate containment, treatment, and disposal or storage measures
• Draft rule presented to NRB in August 2020 – decision to adopt rule was tabled following testimony received
• Draft rule to be presented to NRB October 28, 2020
• More info on web:
  • DNR Homepage: search ‘AFFF’ → follow link to website

Opportunity for Public Input

• To submit written comments, or to register to speak at a Board meeting, contact:
  • Laurie J. Ross, Board Liaison
  Office of the Secretary
  Laurie.Ross@wisconsin.gov
  608-267-7420
  PO Box 7921
  Madison WI 53707-7921

Comments Due by 11am on October 23rd
Upcoming Important Dates

**September 24**
- Virtual Public Hearing: Stanton St WPDES permit – submit comments to Trevor.Moen@wisconsin.gov
  - Additional information on web

**October 2**
- Potable well sampling letters in mailboxes

**October 23**
- Deadline for comments on AFFF Rule

**October 28**
- NRB Meeting: AFFF Rule - Public Input Opportunity

**November 18**
- Next Listening Session

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