



July 3, 2019

Jeffery Danko
EHS Manager – Environmental Remediation
Johnson Controls International, plc
5757 North Green Bay Avenue
P.O. Box 591
Milwaukee, WI 53201

Subject: Reported Contamination at the City of Marinette Waste Water Treatment Facility and Associated Fields Utilized for Landspreading of Biosolids Sludge; Marinette, WI
DNR BRRTS Activity # 02-38-583856

Dear Mr. Danko,

On June 12, 2018, the Wisconsin Department of Natural Resources (the “department”) was notified by the city of Marinette of per- and polyfluoroalkyl substances (“PFAS”) contamination present in influent wastewater received by the city of Marinette Waste Water Treatment Plant (the “WWTP”). On July 6, 2018, the department was notified again by the city of Marinette of significant levels of PFAS contamination present in biosolids sludge generated by the WWTP for years 2017 and 2018.

The department understands that firefighting foams containing PFAS were discharged onto the ground as a result of regular training and testing exercises at the Fire Training Center (“FTC”) located at 2700 Industrial Parkway South in Marinette, Wisconsin since approximately 1962. The department understands that as of November 2017, Johnson Controls International, plc (“JCI”) has suspended outdoor testing and training sessions utilizing firefighting foams at the FTC.

The department understands through your investigation efforts addressing BRRTS case number 02-38-580694 at the FTC that wastewater disposal practices included the discharge of fire-fighting foams containing PFAS to the sanitary sewer system. The department understands JCI and its predecessor companies provided anti-foaming chemical agents to the WWTP to assist with excessive foaming from its wastewater that disturbed the WWTP operations. These wastewater handling processes were implemented by predecessor companies that are now JCI regarding the disposal of firefighting foams. The department understands this practice of disposal to the sanitary sewer system continued by JCI until approximately March 2019.

The department has data indicating wastewater containing PFAS from the FTC were present in the influent of the WWTP for the years 2017 and 2018. The department understands that PFAS accumulate in biosolid sludges generated by WWTPs. As stated above, the department has data indicating significant levels of PFAS contamination present in the biosolids sludge from the WWTP for the years 2017 and 2018. The department understands that as of September 10, 2018, the City of Marinette suspended all permitting for the spreading of biosolids from the WWTP to any applicators of farm fields.

The department has reviewed maps of farm fields depicting where biosolids sludge from the WWTP has applied in the surrounding Marinette area from at least 1997 to 2017. This map is provided as an enclosure to this letter. The department understands JCI, through its consultant, has requested and obtained biosolids sludge from the WWTP to evaluate safe disposal methodology and reduction of total waste products. The department applauds JCI's collaborative efforts with the city to identify and implement additional wastewater treatment as a long-term solution to improve the WWTP processes.

Therefore, the department requests JCI to expand its evaluation of biosolids sludge to the fields on which they were applied. In the interest of protecting human health, safety, welfare and the environment, the department specifically requests that JCI - as a responsible party for the discharge of PFAS compounds to the WWTP - evaluate the impact of historic landspreading of PFAS-contaminated biosolids sludge onto farm fields sites, including analysis of potentially impact private wells. JCI needs to identify in their evaluation all potential transport pathways and routes of exposure, as required by ch. NR 716, Wis. Admin. Code.

In addition to the evaluation of the WWTP and associated landspreading fields, the department requests JCI expand their testing of surface waters. As there is associated discharge and runoff pathways to the Peshtigo and Menomonie Rivers associated with the WWTP and fields utilized for landspreading, the site investigation work plan must include sampling of the Peshtigo and Menomonie Rivers on a regular schedule until such time that it is determined that PFAS contamination is not an issue in these water bodies, or until the degree and extent of PFAS contamination is defined in the Marinette and Peshtigo area that is associated with JCI and its predecessor companies.

Information submitted to the department regarding this site indicates you are responsible for the discharge of a hazardous substance or other environmental pollution (hereafter referred to as "contamination") at the above-described sites. "Sites" refers to the property where the contamination occurred (WWTP and landspreading fields) and any other property it has migrated to, as defined in Wisconsin Administrative Code ("Wis. Admin. Code") § NR 700.03(56).

This letter explains how to initiate the investigation and cleanup of contamination of the site, and how to access further information and assistance from the department. The longer contamination is left in the environment, the farther it can spread and the more it may cost to clean up. Quick action may lessen damage to your property and neighboring properties and reduce your costs in investigating and cleaning up the contamination.

Legal Responsibilities:

Persons meeting the definition of "responsible party" under Wis. Admin. Code § NR 700.03(51) must follow applicable law to address the discharge of a hazardous substance to the environment or other environmental pollution. Wisconsin Statutes ("Wis. Stats.") ch. 292 and Wis. Admin. Code chs. NR 700 through NR 754 provide specific requirements for undertaking appropriate response actions to address contamination, including requirements for emergency and interim actions, public information, site investigations, remedy selection, design and operation of remedial action systems, and case closure.

General Recommendations for Responsible Parties:

The department recommends that you:

1. Hire a Qualified Environmental Consultant

To ensure response actions you plan to undertake comply with Wisconsin law, you should hire an environmental consultant within **30 days**, by August 3, 2019 to meet the regulatory deadlines listed below. A delay in hiring an environmental consultant could result in you missing key submittal deadlines.

Hiring a consulting firm with staff that have the appropriate State of Wisconsin qualifications to supervise and certify the submittals is a critical component and necessary to meet your requirements. Further, an environmental consultant should be knowledgeable of Wisconsin's technical procedures and laws and be able to answer questions regarding cleanup requirements. Required qualifications for environmental consultants are specified in Wis. Admin. Code ch. NR 712. Program guidance is available, see *Wis. Admin. Code ch. NR 712 Qualifications and Certifications, RR-081*.

2. *Properly Submit Reports on Time with Required Information Included*

Wisconsin law includes timeframes for submitting technical documents and conducting work, as well as specifications for what should be included in those submittals. This letter provides a general overview of the timeframes and first steps to take for site investigation and cleanup. For an overview of timing requirements, please refer to *NR 700 Process and Timeline Overview, RR-967, enclosed*.

The department developed the publication *Guidance for Electronic Submittals for the Remediation and Redevelopment Program, RR-690*, to assist responsible parties and consultants in properly submitting documents. Wis. Admin. Code § NR 700.11(3g), and other specific provisions within Wis. Admin. Code ch. NR 700, outline the requirements for submittals, including electronic submittals. Consultants and representatives of responsible parties are required to submit one paper copy and one electronic copy of submittals, including case closure documents. The electronic version must be an exact duplicate of the paper version. Failure to submit both a paper copy and electronic copy delays acceptance of your submittals.

3. *Consider the Benefits of a Fee-based Technical Review of your Submittals*

In-depth department review of technical reports and submittals is available for a fee. The Remediation and Redevelopment (RR) Program project managers are available throughout the process to answer general questions and provide general input as the site moves toward closure. However, if you want a formal written response from the department, a meeting or both on a specific submittal, a review fee will be required in accordance with Wis. Admin. Code ch. NR 749. **Obtaining technical assistance from department project managers throughout the process is an effective way to prevent problems and delays at the end of the process when case closure is requested.** Forms, a fee schedule, and further information on technical assistance is available at dnr.wi.gov and searching "brownfield fees".

Required Steps to Take and Documents to Submit:

The steps listed below serve as a general overview only — all mandatory steps and submittals specified in state law must be met before the department can grant "case closure", which is a determination by the department that no further cleanup is necessary at a site, as defined in Wis. Admin. Code § NR 700.03(3m).

1. **Scoping and Work Plan Submittal – NR 716.07 and 716.09:** The law requires that you appropriately scope out your site investigation and submit a work plan within **60 days of this notification**, by September 3, 2019 for completing a site investigation. The work plan must comply with the requirements in Wis. Admin. Code, chs. NR 700 through NR 754. For additional assistance, the department has extensive guidance on its web page at dnr.wi.gov and search "brownfield publications".

Prior to and during a site investigation, you must evaluate whether any interim actions are needed to contain or stabilize a hazardous substance discharge or environmental pollution, pursuant to Wis. Admin. Code § NR 708.11. If you undertake an interim action (e.g., free product removal), you must submit documentation of the action per Wis. Admin. Code § NR 708.15.

As you develop the site investigation work plan, you must include an assessment of the vapor intrusion pathway. Wis. Admin. Code § NR 716.11(5) outlines the requirements for when to evaluate for the presence of vapors in the sub-surface and in indoor air. The results and conclusions from the vapor assessment must be included in the Wis. Admin. Code § NR 716.15 site investigation report whether or not you elected to take vapor samples. *Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin, RR-800*, is available to help responsible parties and their consultants comply with these requirements.

2. **Field Investigation – NR 716.11**: Following submission of the work plan, the site investigation must be started within the timeframe provided under law. The timeframe varies depending on whether you are requesting the department’s fee-based review of the work plan. If you do not request a fee-based review of the work plan, you must initiate the field investigation within 90 days of submitting the work plan, and you may proceed with the field investigation upon department notification to proceed; however, if the department has not responded within 30 days, from submittal of the work plan, you may then proceed with the field investigation. If a fee and request for department review of the work plan is submitted, the field investigation must begin within 60 days after receiving department approval.
3. **Sample Results Notification Requirements – NR 716.14**: You must report sampling results to the department, owners, occupants, and various other parties within 10 business days after receiving the sampling results, unless a different timeframe is approved by the department, in accordance with Wis. Admin. Code § NR 716.14.
4. **Site Investigation Report – NR 716.15**: Within 60 days after completion of the field investigation and receipt of the laboratory data, the law requires you to submit a Site Investigation Report (SIR) to the department. As part of the SIR or in the Remedial Actions Options Report (RAOR), if there is soil contamination, the responsible party shall identify the current land use (*i.e.*, industrial or non-industrial) and zoning for the site or facility in accordance with Wis. Admin. Code § NR 720.05(5). Also, as part of the SIR or in the RAOR, you must include any interim action report that may be required under Wis. Admin. Code § NR 708.15.
5. **Remedial Actions Options Report – NR 722**: Within 60 days after submitting the SIR, the law requires you to submit a RAOR. The selected remedy in the RAOR should include an evaluation of green and sustainable remediation criteria, as appropriate, as required by Wis. Admin. Code § NR 722.09(2m). This may be submitted as part of a broader SIR.
6. **Remedial and Interim Action Design, Implementation, Operation, Maintenance and Monitoring Reports – NR 724**: Unless otherwise directed by the department, the responsible party shall submit all plans and reports required in Wis. Admin. Code ch. NR 724.
7. **Notification of Residual Contamination or Continuing Obligations – NR 725**: In situations where notification is required, the responsible party must provide submittal(s) that confirms that continuing obligations have been identified and affected property owners have been notified by the responsible parties 30 days prior to case closure, as required by Wis. Admin. Code ch. NR 725.
8. **Semi-annual Reporting -- NR 700.11**: Wis. Admin. Code § NR 700.11(1)(a) requires responsible parties to submit semi-annual site progress reports to the department until final case closure is granted. The reports summarize the work completed over six months and additional work planned to adequately complete the response action at the site. Consultants may submit these reports on behalf of responsible parties. These reports are due in January and July of each year. Please refer to department publication *NR 700 Semi-Annual Site Progress Report, RR-082*, for more information.

Submittals required under Wis. Admin. Code chs. NR 700 - 726

These documents, as applicable, must be submitted to the department prior to the responsible party requesting case closure, unless otherwise directed by the department:

- Ch. NR 708 reports and documentation for any immediate or interim actions.
- Ch. NR 712 professional certifications and signatures are included with applicable submittals.
- Ch. NR 716 work plan(s) and site investigation report.
- Ch. NR 722 remedial action options report (exception is for Dry Cleaners Environmental Response Fund sites), with the selected remedial action identified.
- Ch. NR 724 design, construction documentation, operation, maintenance and monitoring plans and reports, including vapor mitigation commissioning.
- Ch. NR 725 submittal(s) that confirms that continuing obligations have been identified and affected property owners have been notified by the responsible parties 30 days prior to case closure.
- If requesting case closure, the Ch. NR 726 case closure form and documentation substantiating compliance with the NR 700 rule series.
- Ch. NR 749 fees have been paid, as applicable, including closure and database fees.
- Ch. NR 700 semi-annual site progress reports starting six months after notification.

Additional Information:

The department understands JCI is the parent company of Tyco Fire Products, LP (“Tyco”). All submittals by you or your environmental consultant on your behalf are requested to be submitted by or on behalf of JCI or JCI and Tyco. Any submittals received from ‘Tyco’ only will not be accepted. Previous acceptance of Tyco-only submittals does not constitute a waiver of liability for JCI by the department.

The department tracks information on all cleanup sites in a department database available at dnr.wi.gov and search “BOTW”. The Bureau for Remediation and Redevelopment Tracking System (BRRTS) identification number for this site is listed at the top of this letter. You may view information related to your site on this database at any time.

As previously noted, you are required to submit one paper copy and one electronic copy of plans and reports. To speed up processing, your correspondence should reference the BRRTS and Facility Identification (FID) numbers (if assigned) listed at the top of this letter.

All correspondence regarding this site should be directed to:

David Neste
 Remediation and Redevelopment Program
 Wisconsin Department of Natural Resources
 625 E. County Road Y, Suite 700
 Oshkosh, WI 54901
David.Neste@wisconsin.gov

Please visit the department's Remediation and Redevelopment Program website at dnr.wi.gov and search "Brownfields", for information on selecting a consultant, seeking financial assistance, and understanding the investigation and cleanup process. Information regarding review fees, liability clarification letters, post-cleanup liability and more is also available.

Information on the NR 700 process and selecting a consultant is enclosed.

If you have questions, please call the Dave Neste at (920) 424-0399 or by email at david.neste@wiconsin.gov for more information.

Thank you for your cooperation.

Sincerely,

A handwritten signature in blue ink, appearing to read "D Neste", with a stylized flourish at the end.

David Neste
Hydrogeologist
Remediation & Redevelopment Program