

2017 – 2025



Key PFAS Remediation Activities Performed in Peshtigo and Marinette, Wisconsin

OUR PRIORITY

Marinette is our home. Tyco's priority is to ensure the community's water is safe and residents are protected from PFAS contamination from our historic operations. Under WDNR oversight, we have worked proactively, quickly and collaboratively to identify and resolve the issues facing this community, and have made significant progress. We are also proud to be a leading employer bringing to the world lifesaving products in this beautiful community. Tyco thanks our neighbors for their partnership and support that has been instrumental in the great progress we've made.

Deep-replacement potable well installation



KEY MILESTONES

We have extensive efforts underway addressing PFAS from the FTC where Tyco historically tested Aqueous Film-Forming Foams (AFFFs), a lifesaving firefighting product historically required by government entities to fight the worst types of fires, and trained firefighters how to use them. We've spent over \$100 million to date on our efforts, including successfully installing and operating a \$25 million groundwater extraction and treatment system (GETS), removing soils with aggregated PFAS from our property to an out-of-state, federally licensed facility, and ensuring all neighbors affected by our historic activities have access to safe drinking water.

BACKGROUND

As soon as Tyco became aware that PFAS from historic operations at the FTC migrated into private drinking water wells in Peshtigo, we moved rapidly to address this issue by taking responsibility publicly, identifying long-term solutions, and, in the interim, providing bottled water and point-of-entry treatment systems (POETS). We conducted extensive outreach to those affected by our historic operations at the FTC to understand what long-term solution options were preferred by the community. After meeting with and listening to residents, deep-replacement potable wells were identified as the preferred option for a long-term, safe drinking water source. Working in coordination with the WDNR, Tyco began the installation of these wells in 2022. To date, we've installed 100 deep-replacement potable wells (approximately 75% of the requested new deep wells, with the remainder scheduled for completion in summer 2025) and water treatment systems to address naturally occurring hardness and minerals that are present in the deep aquifer. Tyco has conducted sampling of the new drinking water over 250 times and all data have demonstrated the water is safe to drink. We've hired a world-class team and are using cutting-edge technologies to investigate and remediate PFAS associated with Tyco's historic operations.

Below is a summary of Tyco's PFAS remediation activities performed as of March 2025.

FIRE TECHNOLOGY CENTER REMEDIATION PROJECT OVERVIEW: SIGNIFICANT MILESTONES

2017/2018	2019	2020	2021	2022	2023	2024	2025
<ul style="list-style-type: none"> • 2017: Stopped outdoor testing of foam • December 2017: Bottled water service began • 2018: Tyco FTC PFAS BRRTS Project Initiated • First POETs installed • January: April: Site Investigation Work Plan • October: Site Investigation Results Report • November: Ditch A System Final Design • December: Ditch A System Start-up 	<ul style="list-style-type: none"> • February: Supplemental Site Investigation Work Plan • March: Stopped discharging to POTW • March: Supplemental Site Investigation Report • April: Ditch B System Final Design • April – Aug: Sanitary Sewer rehabilitation • May: Heath Lane (Southern Area) Investigation Work Plan • June: Site Investigation Work Plan • October: Ditch B System Start-up • December: Site Investigation Report 	<ul style="list-style-type: none"> • March: Southern Area Report • May: Bedrock Investigation Work Plan • May: Soil Excavation (Bldg 105) • May: Interim Site Investigation Report • May: Conceptual Site Model Report • June: Aerial Deposition Evaluation Report • Sept-Oct: On-site Soil Sampling and Results • October: Ditch B (GETS) Pre-design Investigation Work Plan • Purchased Dehumidifier for City of Marinette Biosolids • November: Groundwater Flow and F&T Model Report • November: Ditch B (GETS) Pre-design Investigation Report 	<ul style="list-style-type: none"> • February: GETS Design • March: Soil Interim Remedial Action Plan • April: Air Pathway Site Investigation Work Plan • July: GETS Long-term Monitoring Plan • Nov-Dec: GETS Construction Process Begins: over 28,000 ft (5 miles) of pipe installed, and construction of a 12,500 sq building • Dec: Sanitary Sewer Rehabilitation Interim Action Report 	<ul style="list-style-type: none"> • Air Pathway Results and Additional FTC Investigation Work Plan • Jan – May: GETS System Installation • May - Dec: Additional Site Investigation Activities • June: Implementation of Soil Interim Remedial Action Plan (Excavation) • August: Install of additional Advisory Surface Water Signs along waterways • September: Interim Action Plan: Deep Drinking Water Well and Long-term Monitoring Plan • October: GETS Startup • December: Deep Private Well Installs Begin 	<ul style="list-style-type: none"> • April: Site Investigation Status Report • May: GETS OM&M Plan • June- Oct: Additional Site Investigation Activities • June: GETS Construction Documentation Report • August: Additional Site Investigation Work Plan • August: Deep Aquifer Bedrock Well Design Report • December: Soil Remedial Action and Removal Report 	<ul style="list-style-type: none"> • March: Soil Mgmt Plan • March: Interim Long-term Monitoring Plan • April – May: Additional Site Investigation Activities • August: Site Investigation Status Report (with Long-term Monitoring results) • August: Site Investigation Status Report (with Long-term Monitoring results) • August: On-site Soil Mgmt Plan (Beneficial Reuse) 	<ul style="list-style-type: none"> • March: GETS Optimization activities • March: Additional Site Investigation Status Report (with Long-term Monitoring results)
Ongoing Activities: Bottled Water & PWSA Monitoring/Reporting (2017- Current), Replacement Potable Well Installs (2023- Current) O&M: Ditch A&B (2019 - Current) & GETS (2022 - Current), Foam Monitoring (2020 – Current),							

ACTIVITY UPDATES & INVESTMENTS

OPERATIONS

FTC Modified Operations

- **2017:** Stopped outdoor foam testing
- **2019 to 2021:** No industrial water discharge to the City of Marinette's publicly owned treatment works (POTW)
- **2019:** Conducted extensive sewer investigation and lined several sewer pipes
- **2020:** Provided funding for the City of Marinette's POTW Biosolids Dehumidifier
- **2021:** Constructed a new fully enclosed indoor foam testing area
- **2021:** Designed and installed a state-of-the-art industrial wastewater treatment system to remove PFAS and other compounds prior to discharge
- **2022:** City of Marinette Industrial Pre-treatment Discharge Permit issued
- **2024:** Discontinued the production and sale of fluorinated firefighting foams as of June 30, 2024, including Aqueous Film-Forming Foam (AFFF) and related products. Tyco is now only testing non-fluorinated foams at its indoor testing facility.

SOIL

FTC Soil Remediation

Tyco implemented a WDNR-approved plan for removal and disposal of on-site soil with PFAS:

- Removed about 5,300 cubic yards of soil stored on site from construction of the \$11 million Advanced Research & Testing Facility
- Excavated about 1,250 cubic yards of soil in five locations in the Outdoor Testing Area with aggregated PFAS
- Disposed of the soil under permit at an out-of-state facility

LONG-TERM DRINKING WATER

Private Well "Point of Entry Treatment" (POET) Water System and Bottled Water

All homes in the Private Well Sampling Area (PWSA) are below PFAS drinking water standards set by the U.S. Environmental Protection Agency, including those who have already received a deep replacement well or have a POET installed or are receiving bottled water (or both).

- In 2017, a potable supply well sampling program was initiated.
- Bottled water services have been offered to all PWSA residents at no cost to residents.
- POETs originally offered to anyone with a detection of PFAS in the PWSA:
 - A total of 47 POETs were installed (as of February 2025, 34 of these have been removed after deep aquifer replacement potable wells were installed and tested to ensure drinking water is safe.)
 - New POET offerings follow WDNR-approved Long-term Potable Well Sampling Plan

- A Comprehensive Alternative Water Management Plan is in place.
- Sampling and maintenance for POETs and private wells will continue under approved WDNR Long-term Potable Well Sampling Plan (revised every 12 months) until replacement wells are installed.

New Deep-Replacement Potable Wells

The vast majority of our neighbors in Peshtigo asked us to ensure their long-term water quality by building new deep drinking wells for them and we are well on our way to meeting those requests:

- To date, over 75% of our neighbors impacted by our plume have signed up for a new deep well.
- Tyco has installed approximately 75% of the requested new deep wells with the remainder scheduled for completion in summer 2025.
- Tyco also provides a water treatment system through Culligan for hardness and naturally occurring minerals and is providing maintenance of these systems until 2044 at no cost to the homeowner.
- Homeowners continue to receive bottled water and/or maintenance of their existing POET until they receive laboratory results confirming that their new drinking water is safe.



Granulated Activated Carbon (GAC) treatment vessels for the GETS

TREATMENT & MONITORING

Interim Treatment Systems For Ditch A and Ditch B

- In 2019, Tyco built interim treatment systems for certain surface water features (locally referred to as Ditch A and Ditch B) that were discovered to contain PFAS from historic operations. These systems operate when water is present within the ditches, treat the water, and discharge it back into the ditch under a WDNR WPDES (Wisconsin Pollution Discharge Elimination System) Permit.
- Monitoring and reporting of the Ditch A and B systems is conducted under approved WDNR Monitoring Plans.
- To date, these systems have captured and treated over 1.6 billion gallons of water.

Groundwater Monitoring Well Network

Tyco maintains a network of over 100 groundwater monitoring wells that are monitored throughout the groundwater plume under a WDNR approved plan to ensure plume stability. The data is reported to the WDNR every six months per Tyco's approved Long-term Monitoring plan.

Groundwater Extraction Treatment System (GETS)

- In 2021, after extensive investigation and pre-design testing, the GETS was constructed to ultimately replace the surface water systems by preventing groundwater from entering the impacted ditches.
- Initially constructed with 9 extraction wells, the system began operation in 2022 and in 2025 is being expanded to 14 extraction wells to capture over 120 million gallons per year.
- The system was constructed with more than 28,000 feet of subgrade piping and a 12,500-square-foot treatment building.
- The Treatment Building includes:
 - Pretreatment system for iron and organics removal
 - 12 carbon vessels (~120,000 pounds of carbon)
 - 2 ion exchange resin vessels (~10,500 pounds of resin)
 - Enhanced contact time of approximately 70 minutes
- Treated groundwater is discharged to Ditch B under a WDNR WPDES Permit.
- Monitoring and reporting of system performance is conducted under an approved WDNR Monitoring Plan.

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