Throughout the state, there are a number of significant discharges of fuel oil associated with the delivery of fuel. These problems include pumping fuel into inappropriate pipes (i.e. septic tanks, pipes that are no longer connected to a fuel tank in a home, monitoring wells, etc.), pumping fuel into structurally unsound tanks, or pumping fuel too quickly into empty tanks.

Petroleum product spills detrimentally affect the environment by harming vegetation and wildlife. They pose a risk to human health by irreversibly polluting groundwater, septic systems, and private wells. Homes may be made uninhabitable for months or years due to persistent odors or possible fire hazards. Cleanup of even minor releases can cost thousands of dollars.

Not every spill can be prevented. If a spill does occur, start cleanup as soon as possible. Be sure to contact your insurance company for financial assistance. Hazardous substance spills must be reported to the DNR's 24-hour toll-free hotline: 1-800-943-0003. The DNR recommends that you hire a trained environmental consultant to assist you with cleanup.

Spills can be costly and may cause irreparable damage. These are just a few examples from around Wisconsin:

- A local oil distributor emptied 100 gallons of fuel oil into a basement oil tank with a disconnected line. Items in the basement, as well as flooring and walls, were flooded with oil before the substance leaked into the sump basin. Cleanup cost $105,000.

- A church donated 300 gallons of fuel oil to a needy family in its congregation. When the family's above ground storage tank was filled to capacity, it burst open and spilled fuel oil into the sandy soils around and under their home. Soils had to be excavated from around the home and hand dug from below the home. The spill occurred just 15 feet away from the family's private well, which now has to be sampled for contamination on a quarterly basis.

- A Marinette County wastewater treatment facility observed an unknown petroleum product draining into its plant. The product was traced back to a basement storage tank in a private residence. The tank's faulty valve discharged 100 gallons of heating oil into the basement and sanitary sewer. Cleanup cost $4,000.

- A rusted above ground storage tank at a summer home allowed oil to leak out and kill vegetation around the tank. The spill necessitated excavation of surrounding soil. The home's foundation absorbed some product and cannot ever be adequately cleaned up.

- An above ground storage tank's supporting stand sank into the ground, causing the tank to fall over and spill 125 gallons of gasoline. The contaminated soil had to be excavated and stockpiled. It took more than four months for the area to be ready for backfilling.

- Possible groundwater and surface water contamination occurred in Door County when a defective oil tank spilled. A newly installed 274 gallon tank had developed a leak that released 129 gallons of fuel oil. Cleanup costs totaled $15,000.

For more information:
- For more information on the Spills program, visit the Department of Natural Resources website at dnr.wi.gov, search: "Spills".
- For more information on the above ground storage tank regulations, check out the Department of Agriculture, Trade & Consumer Protection website at datcp.wi.gov.
- For more information on home fuel oil cleanup and safety, see the Department of Health Services website at www.dhs.wisconsin.gov, search: "Oil Spills".
1. If you have a disconnected fill pipe that leads into your basement, you should cancel service with your fuel oil company immediately. In addition, remove the fill pipe or secure the cap with a bolt to make accidental filling more difficult (see first photo on the left). Clearly mark any pipelines still in service for easy recognition.

2. Check your storage tank's stability. A typical 250 gallon tank supports a ton of fuel oil when full. This necessitates a strong and stable supporting structure. Have your tank's base inspected at least once a year. Storage tanks located on steep grades or exposed to harsh weather conditions are especially vulnerable. The second photo on the left details an unreliable support structure. Note the fallen oil tank next to the supports.

3. Create a secondary containment system— one that has its base on an impermeable surface, like concrete, with a collection basin for potential spills. This protection is mandated by Wisconsin Administrative Code for new tank construction. Check with the Department of Agriculture, Trade & Consumer Protection for further instruction.

4. Ensure easy accessibility. Fueling trucks should be able to fill your tank without bumping or disturbing the tank.

5. Check for leaks. Even occasional dripping could lead to contamination of your drinking water. Gasoline dissolved in groundwater is tasteless and may not be noticed when consumed. Changes in the color of vegetation around your tank may signal a spill (see third photo on the left). Be sure to check that valves are completely shut.

6. To prevent overfills, you should ensure that the fuel oil level gauge is functioning properly and accurately. Specify the quantity of fuel needed to the supply company and request that your tank’s size and existing quantity of fuel in the tank is verified before fueling. The last photo on the left shows fuel oil in a basement floor opening resulting from an overfill.

7. Be an educated consumer. Choose a fuel oil company that you trust. Ask them if they have the experience and training to avoid spills due to improper filling technique. Remember that both you and the fuel supplier are liable for any required remediation. Establishing a relationship with a reliable company may reduce the potential for spills.

This document contains information about certain state statutes and administrative rules, but does not necessarily include all of the details found in the statutes and rules. Readers should consult the actual language of the statutes and rules to answer specific questions. The Wisconsin Department of Natural Resources provides equal opportunity in its employment, programs, services, and functions under an Affirmative Action Plan. If you have any questions, please write to Equal Opportunity Office, Department of Interior, Washington, D.C. 202040. This publication is available in alternative format upon request. Please call 608-267-3543 for more information.