

## Used Oil, Fuels, Antifreeze, Solvents, Containers and Spills Environmental Management Bulletin

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This document is intended to provide information concerning the handling/storage/disposal of used oil and fuels contaminated with water. Used oil is any oil that has been refined from crude oil or synthetic oils which have been used for lubrication, cutting oil, heat transfer, hydraulic power, or insulation in electric transformers, which have been contaminated by physical or chemical impurities. Specific requirements are contained in the Missouri Hazardous Waste Management Regulations. Used oil on Fort Leonard Wood (FLW) will ultimately be offered for recycling. Specific questions may be addressed to the Directorate of Public Works (DPW) Environmental Division at 573-596-0882.

### FLW Guidelines

#### Used Oil

##### 1. Storage Containers

- a. All containers must be, at a minimum, fifty-five (55) gallon bung type steel drum. Use of another container must be approved by DPW Environmental Division.
- b. Container must be stenciled with "USED OIL" in letters at least 1 ½ inches high.
- c. Container must be placed on hardstand (i.e. concrete or asphalt). Container must be kept closed except when adding oil.
- d. Container must have a secondary containment (i.e. sandbags placed around the container, a concrete structure, or metal pan capable of containing 100% of container capacity in the event of a rupture).
- e. Containment structure must be maintained in accordance with guidance given below.
- f. Oil tanks will be dumped by the Base Maintenance Contractor. Pumping can be accomplished by a scheduled service, or by contacting the DPW Service Order Desk at 573-596-0333.
- g. Used oil collected on FLW will ultimately be offered for recycling.

##### 2. Spills

- a. A copy of the FLW Spill Prevention and Response Plan (SPRP) must be kept on hand at each facility that handles or stores petroleum, oil, or lubricant (POL) products.
- b. A spill containment kit must be kept at each facility that handles or stores POL products. The kit will include, at a minimum, a fifty-five (55) gallon steel or ply drum, absorbent materials, broom, and a dustpan. The kit will be stenciled with "Spill Kit" and placed in a designated location in which all building occupants are familiar. Table 1, Spill Kit Contents, provides a list of spill kits available through supply.
- c. Any spill must be reported immediately in accordance with the SPRP (Dial 911) and proper containment measures employed by facility occupants. If using a cellular phone dial 573-596-0883.
- d. All spills will be cleaned up by facility occupants if manpower and equipment are available as required by Army Regulation (AR) 200-1, dated 12 December 2007. If resources are unavailable, the Base Maintenance Contractor may be notified for spill cleanup by contacting the DPW Service Order Desk at 573-596-0333.



Table 1, Spill Kit Contents

Item	NSN 4235-01-
Loose absorbent, 1-cu ft, (4 per box)	423-1466
Loose absorbent, 2-cu ft, (3 per case)	423-0711
Pad, 18 X 18 X 30-in, (30 per box)	423-1463
Socks, 2-in X 10-ft (20 per box)	423-1467
Socks, 4-in X 8-ft 10-in X 10-ft	423-1465
Boom with clamps, 10-inX10-ft	423-2787
Spill response kit, water resistant nylon tote bag	432-7909
<b>Spill response kit</b> – twenty-five (25) gallon drum with seven (7) 18 X 18 X 3-in pads, one (1) 4-in X 8-ft sock, two (2) 4-in X 4-ft socks, one (1) ¾-cu ft bag, two (2) Tyvek suits, one (1) pair of nitrile gloves, one (1) pair safety goggles, and three (3) disposal bags	432-7912
<b>Spill response kit</b> – fifty-five (55) gallon drum with fifteen (15) 18 x 18 x 3-in pads, one (1) 4-in x 8-ft socks, two (2) 4-in x 4-ft socks, three (3) ¾-cu ft bags, three (3) Tyvek suits, three (3) pair nitrile gloves, three (3) pair safety goggles, and five (5) disposal bags	432-7912
<b>Spill response kit</b> – fifty-five (55) gallon drum with ten (10) 18 X 18X 3-in pads, five (5) 2x10-ft socks, five (5) ¾-cu ft bags, two (2) quarts of emulsifier, two (2) pair nitrile gloves, one (1) folding shovel, one (1) 3 ½-gallon bucket, two (2) Tyvek suits, two (2)pair safety goggles, one (1) scoop, five (5) disposal bags	423-7221

### 3. Disposal

- a. Floor sweep: Cleanup materials from POL spills will be treated as hazardous waste. Call the Hazardous Waste Contractor at 573-329-8532 for pick-up.
- b. Soil: Any quantity of soil or debris material contaminated from POL spills must be tested and properly disposed of by the Hazardous Waste Contractor.
- c. Oil filters must be punctured, inverted, and “hot drained” for a period of at least twenty-four (24) hours before disposal. After this period, oil filters must be placed in a dumpster specifically designated for oil filter recycling if available. If this service is not available, double bag the pre-drained filters in plastic bags and discard in the regular solid waste dumpster.
- d. Hydraulic fluid, brake fluid, and transmission fluid may be mixed with used oil. No other fluids or lube grease should be placed in used oil containers. No absorbent material, oil filters, or shop rags should be disposed of in used oil containers. Doing so renders the used oil non-recyclable, requiring disposal as a hazardous waste.
- e. Soiled rags must be placed in a metal container stenciled “DIRTY RAGS”. All liquid must be removed from rags. The lid must be kept closed except when adding rags.
- f. Soiled rags must be taken to the Post Laundry to be exchanged for clean rags, or turned in as a hazardous waste.

**Gasoline: (Contaminated with Water or Other Material)**

1. Gasoline contaminated with water or other material must be managed as a hazardous waste and turned in following the DPW Hazardous Waste Turn-In Procedures.
2. All spills must be handled in the same manner as stated above in the used oil spill requirements.

**Diesel Fuel: (Contaminated with Water Only)**

1. Storage Containers. Diesel fuel contaminated with water will be stored in a container stenciled "BOILER FUEL".
2. The container must be placed on a hardstand and kept closed except when adding diesel fuel.
3. Containers must have a secondary containment.
4. Only diesel fuel may be added to this container.
5. Diesel fuel collected on FLW will be used as a boiler fuel, saving energy costs.
6. Container will be pumped by the Base Maintenance Contractor. Pumping can be accomplished by notifying the DPW Service Order Desk at 573-596-0333.
7. Containers must be stored in a well ventilated area.
8. All spills must be handled in the same manner as stated above in the used oil spill requirements.
9. If fuel is contaminated with anything other than water, it must be managed as a hazardous waste.

**Solvents**

1. All solvent users will recycle their solvent to ensure Department of Army policy to reduce hazardous waste is met. These standards are outlined in AR 200-1, Chapter 5.
2. Solvent tank users that procure off-site vendor service for recycling solvent will coordinate with the DPW Environmental Division and contract through Directorate of Contracting with an Environmental Protection Agency permitted or state authorized solvent recycling company.
3. All solvent tank users must follow the guidelines for safe use of solvent tanks, reference memorandum, Environmental Management Procedures for Solvent Tanks, signed.
4. Parts washer lids must be kept closed except when in use.
5. All spills must be reported in the same manner as stated above in the spill requirements below.

**Antifreeze**

1. Used antifreeze will be stored in a container stenciled "RECYCLED ANTIFREEZE."
2. Container must be placed on a hardstand. Container must be kept closed except when adding antifreeze.
3. Only antifreeze may be added to the container.

**Requirements for Maintaining Secondary Containment on Storage Containers/Tanks**

1. All secondary containment structures must be maintained in order to prevent collection of rainwater.
2. If secondary containment structures are provided with a rainwater drain valve, rainwater should be drained after each measurable rain, if any collection of rainwater occurs.
3. Drain valve must remain secured (locked) in the closed position at all times unless draining rainwater from containment structure.
4. Drain valve must be manned during draining of rainwater.
5. Only rainwater will be drained from containment structure. Should an oily sheen be visible on the water, the drain valve should not be opened. Sheen must be removed from water by use of absorbent blankets before draining, or rainwater can be pumped. Pumping can be accomplished by calling the DPW Service Order Desk at 573-596-0333.