Used Oil Collection & Recycling Grant Program Requirements

Tennessee Department of Environment & Conservation
Division of Solid Waste Management
Used Oil Program
July 2013

Introduction

The Used Oil Collection Act of 1993 (T.C.A. § 68-211-1001) was enacted by the General Assembly to "reduce the amount of improperly disposed used oil by do-it-yourselfers by providing incentives to increase the number of collection facilities for used oil." The Act establishes a used oil collection fund ($.02 per quart fee levied at the wholesale level on sales of oil in packaged form) to be used in part to establish used oil collection centers. The Act establishes a toll free telephone number for use by do-it -yourselfers to obtain information on used oil collection centers and programs. The Act complements the Solid Waste Management Act of 1991(T.C.A. § 68-211-866 (b)) which requires all counties to provide at least one center to collect used oil and other automotive fluids by January 1, 1995 unless adequate centers are otherwise available for use by the citizens of the county. The Used Oil Collection Act of 1993 provides for collection center grants to counties, cities, and solid waste authorities to assist with establishing used oil collection centers for the collection of do-it-yourselfer oil.

The purpose of this guide is to provide used oil collection center information concerning best management practices that must be met for collection centers receiving grant funding through the Used Oil Program. **Collections centers approved for Used Oil Grant funding exceed the state regulatory requirements as defined in the *Standards for the Management of Used Oil* (Chapter 1200-01-11-.11).** The *Used Oil Collection & Recycling Grant Program Requirements* are not, nor are they intended to be, a regulatory manual. Questions concerning regulatory matters should be directed to the Division of Solid Waste Management at 1-888-891-TDEC

Additional information concerning grants, grant guidelines, or technical matters regarding this program is available at www.tdec.net/swm/swap.shtml.

Tennessee Department of Environment & Conservation
Division of Solid Waste Management
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 14th Floor
Nashville, Tennessee 37243
615-532-0780

Contents

Definitions	4
Site Design and Preparation	4
Used Oil Collection Tank and Spill Pan	5
Operations	6
Used Oil Filters	6-7
Used Oil Transporters	8
Center Registration and Reporting	8
Used Oil Collection Database	9
Used Oil Contacts	9
Equipment Vendors and Sample Specifications	10-13

Counties are required by the *Solid Waste Management Act of 1991* to provide at least one site to collect used automotive oil, waste tires, lead acid batteries, and other automotive fluids.

Definitions

Tennessee Code Annotated § 68-211-1002 (4), (8), and (9), defines do-it-yourselfer (DIY), used oil, and used oil collection centers as follows:

"**Do-it-yourselfer**" means an individual who removes used oil from the engine of a light duty motor vehicle, small utility engine owned or operated by such individual, non-commercial motor vehicle or farm equipment."

"**Used oil**" means any oil which has been refined from crude or synthetic oil and, as a result of use, becomes unsuitable for its original purpose due to loss of original properties, or presence of impurities, but which may be suitable for further use and may be economically recyclable. Used oil does not include oil filters.

"**Used oil collection center**" means a facility, including fixed locations, tanks and containers, which accepts used oil from DIYs and which constitutes an approved centralized collection center for used oil".

Standards for the Management of Used Oil, Chapter 1200-01-11-.11 further defines do-it-yourselfer used oil collection center as follows:

"**Do-it-yourselfer used oil collection center**" means any center or facility that accepts/aggregates and stores used oil collected only from household do-it-yourselfers.

Site Design and Preparation

Considerations for a used oil collection center should include site selection and preparation. Soil conditions and proximity to surface or groundwater should be evaluated and determined to ensure minimal impacts to the environment in the event of a spill.

Site preparation for placement of the used oil collection tank shall include a concrete slab (pad) or other similar impermeable and oil resistant material. The pad should be large enough for the public to access the used oil collection tank with spill pan and additional containers for the collection of antifreeze and used oil filters.

The site shall be covered with a canopy large enough to protect the containers and pad from rainfall.

Used Oil Collection Tank and Spill Pan

Collections centers approved for Used Oil Grant funding exceed the state regulatory requirements as defined in the *Standards for the Management of Used Oil* (Chapter 1200-01-11-.11). Used oil collection tanks with a spill pan on an impermeable pad shall be covered with a canopy or enclosed in a building to prevent rain run-off. Collection tanks shall receive routine daily maintenance to remove oil spilled on the outside of the tank and remove oil that has collected in the spill pan. A variety of absorbent materials may be purchased with used oil grant funds such as pads, booms, socks, and loose material to customize the spill kit. A spill kit should be stored in a water tight container located in close proximity to the used oil collection tank. Spent oil absorbent may be bagged and disposed in a Class I Landfill.

Used oil collection tanks purchased with grant funds must meet or exceed the following specifications:

1. Double wall containment, 110% containment capacity
2. Spill Pan
3. Lockable, rain-proof lids and access doors
4. Oil level monitoring gauge
5. Corrosion resistant exterior shell
6. Built-in deep-well sink with removable debris screen
7. Automatic shut-off mechanism to prevent overflow
8. All stainless steel or corrosion resistant exterior hardware
9. Universal, two inch quick disconnect fitting (preferably exterior access) for easy service by oil transporters with a vacuum hose tank truck
10. Movable (empty only) by hoist truck or forklift
11. Vented to prevent the build-up of harmful gases
12. Meets National Fire Protection Association (NFPA) 30 code specifications
13. Tank exterior must be prominently labeled as “USED OIL” (“Used Oil” labels are available upon request)
14. Manufacturer’s operations manual supplied with each unit
15. Manufacturer’s warranty of at least one year against defects or failure

Operations

As a condition of accepting grant funds from the Used Oil Program, the collection center must accept uncontaminated used oil from any do-it-yourselfer. The used oil collection center shall establish a maximum amount of used oil that the center will accept from any person in any one (1) day. Such maximum shall be at least five gallons (5 gal.) but no more than ten gallons (10 gal.). To minimize the risk of an operator receiving contaminated oil, the collection center shall post a sign alerting the public to avoid contamination by not mixing used oil with any other materials, such as gasoline, paint thinner, antifreeze, etc.

All collection centers must be in compliance with applicable regulations, post hours of operation, and ensure that a responsible employee is present at all times during operating hours. The collection tank must be secured during non-operating hours to prevent improper oil disposal or vandalism. A fire extinguisher capable of fighting petroleum fires should be placed at a strategic location near the oil collection tank. "No Smoking" signs shall be posted in the area of the oil collection tank. The center shall have a communication device capable of alerting the local fire department in the event of a fire or other emergency agencies as needed. Absorbents shall be accessible for small spills and the used oil collection center area shall receive daily maintenance.

Although used oil collection centers may be established at public or private locations, local governments should consider establishing the used oil collection center at convenience center locations. This will eliminate unnecessary additional costs for center preparation and should provide for convenient access by residents. Local governments shall also establish their programs consistent with their Municipal Solid Waste Region Plan as required by the Solid Waste Management Act of 1991 (T.C.A.§ 68-211-814).

Used Oil Filters

The Division of Solid Waste Management has identified four options that used oil generators may exercise in recycling or disposing of used oil filters. **Collection centers approved to receive used oil grant program funds to purchase a filter crusher shall recycle the used oil and metal from the filters (Option 1 only).**

Option 1 – Recycle the oil and the metal from the filters
Used oil filters are exempted from regulation as a hazardous waste if both the metal and the used oil from the filters are recycled. To qualify for the scrap metal recycling exemption, free flowing oil must be removed from the filters through draining and crushing or disassembly of the filter prior to shipping to a metal recycler.

Under the used oil recycling exemption, the physical processing of the filters (draining, crushing, and/or transporting) is not subject to regulation under the hazardous waste regulations, and may be conducted by the generator or by another party at a different location.

If a filter is disassembled, the remaining material is being granted a statewide special waste approval if the filter element is mechanically compressed to remove all free flowing oil and the oil is collected for recycling. The generator then certifies that the filter element and gaskets are non-hazardous and all free flowing oil has been removed. This certification is being accepted without Toxicity Characteristic Leaching Procedure (TCLP) testing based on published studies that have indicated filters processed in this manner consistently pass the TCLP test.

Option 2 – Drain and crush the filters, recycle the oil and dispose of the filters as special waste in any Class 1 Landfill

A statewide special waste approval is being granted for all used oil filters which are certified as non-hazardous and which have been properly drained and crushed, eliminating all free flowing oil. This certification is being accepted without TCLP testing based on published studies that have found filters processed in this manner consistently pass the TCLP test. The crushing removes approximately 88% of the oil from the filter, with only about one ounce of oil remaining in the fiber filter element. This eliminates the leakage of oil from the fiber after it has been placed in a landfill. If a filter is properly drained and crushed, then it may be disposed of in any Class I landfill (with or without a synthetic liner) that is permitted in Tennessee. The oil removed during draining and crushing must be collected and properly recycled. Under the used oil recycling exemption, the physical processing of the filters (draining crushing and/or transporting) is not subject to regulation under the hazardous waste regulations and may be conducted by the generator or by another party at a different location.

Option 3 – Puncture and hot drain or cold drain & dispose of the filters as special waste in a Subtitle D Landfill (synthetic liner)

A statewide special waste approval is being granted for all used oil filters which are certified as non-hazardous and which have been punctured and hot drained for a minimum of twelve (12) hours, or cold drained for twenty-four (24) hours. This certification is being accepted without TCLP testing based on published studies which have found that filters processed in this manner consistently pass the TCLP test. Hot draining is defined as when the filter and oil is removed/drained at engine operating temperature. Cold draining is defined as when the draining begins at a temperature when the oil and filter is at less than engine temperature. At least one hole must be punctured in the dome end of the filter and the dome end pointed downward while being drained. Filters should be double bagged in 3 mm plastic bags (garbage) and tied at the loose end prior to disposal. The oil removed during draining must be collected and properly recycled. Under the used oil recycling exemption, the physical processing of the filters (puncturing, draining and/or transporting) is not subject to regulation under the hazardous waste regulations. This option does require that the filters be crushed as long as they are properly drained and disposed of in a permitted Class I Landfill with a full Subtitle D Synthetic Liner and Leachate Collection System. Terne plated filters are not exempt under this approval and continue to be treated as hazardous waste.

Option 4 – Dispose of the filters as a hazardous waste

If a generator chooses not to recycle, crush, or puncture and hot or cold drain then the filters are handled as a hazardous waste. Special waste approval will not be granted for filters that are not punctured and drained or drained and crushed. Any oil, which drains from the filters, must be disposed of as a hazardous waste if it is not recycled.

Used Oil Transporters

Used oil collection centers shall transfer used oil to certified transporters in possession of a valid United States Environment Protection Agency (EPA) identification number issued by the Tennessee Division of Solid Waste Management. Tennessee registration is required even if the transporter has been issued an EPA identification number from another state. A listing of certified Tennessee Used Oil Transporters may be found at www.state.tn.us/environment/swm/ or by contacting the Used Oil Hotline at 1-800-287-9013.

According to Rule 1200-01-11-.11 (5) any transporter of used oil who transports: a) quantities of used oil in excess of 55 gallons of used oil at any given time, or b) who transports more than 1,000 gallons of used oil in a calendar year, must meet certification requirements in order to transport used oil in the state of Tennessee.

Center Registration and Reporting

Collection centers shall register with the Division of Solid Waste Management by completing the Used Oil Installation Registration and Notification, Form HN-O, included in the grant application or found at www.state.tn.us/environment/permits/usedoil.shtml.

All used oil grant recipients are required to maintain records of the quantity of used oil collected, the quantity of used oil burned as fuel, and the quantity of used oil filters recycled. This information shall be reported to the State in the Municipal Solid Waste Region's Annual Progress Report. Records shall be maintained to include the identity of the transporter and the name and location of the facility to which the oil was transported.

The Environmental Protection Agency has primacy for Spill Prevention Control and Countermeasures (SPCC) as specified in the Oil Pollution Prevention regulations (40 CFR Part 112). This part establishes procedures, methods and equipment, and other requirements for equipment to prevent the discharge of oil from non-transportation related onshore and offshore facilities into or upon the navigable waters of the United States or adjoining shorelines. These regulations are applicable to owners or operators of onshore and offshore facilities engaged in producing, storing, transferring, distributing, and/or consuming oil and oil products. Used Oil collection/aggregation centers having a capacity of more than 1,320 gallons require an SPCC Plan. More information can be found at www.epa.gov/oilspill/.

Used oil collection/ aggregation centers having a capacity of more than 1,320 gallons require an SPCC Plan.

Used Oil Collection Database

The Division of Solid Waste Management has established a database of used oil collection centers and toll free hotline to disseminate information about do-it-yourselfer used oil collection in Tennessee. All grant recipients are required to be included in the database and accept used oil from local do-it-yourselfers. The name and location of the used oil collection center will be included in the database and provided to citizens who call seeking a used oil collection center in their area.

Used Oil Hotline, **1-800-287-9013**

Additional information available to callers includes used oil collection centers that also accept antifreeze and used oil filters.

A used oil collection center may be removed from the database after;

a) Valid complaints from the public against the center owner/operator have been received and investigated or
b) Being advised by Division of Solid Waste Management personnel or other regulatory agencies of a significant regulatory violation at the facility.

If the Division receives a complaint against a center, personnel will contact the owner/operator to discuss and attempt to resolve the complaint. If there is no resolution the center will be removed from the database. Correction of the violation does not ensure reinstatement to the database. If the collection center is removed and had been established using used oil grant funds, the grantee may be required to repay those funds pursuant to the terms and conditions of the grant agreement.

Used Oil Program Contacts

Rhonda L. Paxton, Used Oil Coordinator
615-532-0807
Rhonda.L.Paxton@tn.gov

Brenda Collins, Used Oil Clerk
1-800-287-9013
Brenda.Collins@tn.gov

Loretta Harrington, Grant Program Manager
615-532-0086
Loretta.Harrington@tn.gov