

Tennessee Department of Environment and Conservation
Division of Solid Waste Management

**Policy for Automobile Shredder Residue as an
Alternate Daily Cover at Class I Landfills**

Purpose

This policy addresses the process for approval of a minor modification and the conditions for use of automobile shredder residue (ASR) as an alternative daily cover at Class I landfills.

Background

Automobile shredder residue (ASR) is the residual material remaining from the automotive recycling process. These materials include plastics, rubber, wood, paper, fabric, glass, sand, dirt, minimal amounts of ferrous and non-ferrous metal, and at times may combine residue from appliance shredding. Advancements in ferrous and non-ferrous separation processes continue to further reduce the residual metals in ASR. Solid waste regulations 0400-11-01-.04(6) require landfills to use six inches of earthen material (i.e., soil) to minimize vectors (e.g., rodents, birds); minimize scavenging; reduce fire hazard; minimize blowing litter; and reduce noxious odors. Under these same regulations, alternative materials may be used if they meet the above criteria without presenting a threat to human health and the environment. A documented beneficial use of ASR is as an alternative daily cover for Class I landfills. As an alternative daily cover (ADC) ASR can be a more economic option to soil and helps to conserve valuable material and energy resources, such as soil.

Process for Approval of a Minor Modification for Use of Automobile Shredder Residue as Alternate Daily Cover

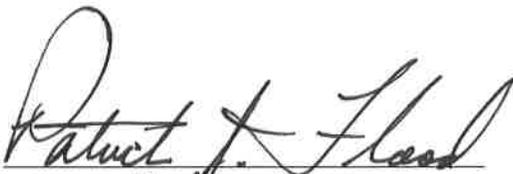
The owner must submit a written request to use Automobile Shredder Residue (ASR) as alternative daily cover and include with the request, a document that describes how the landfill will comply with all the conditions below. A 60 day or 90 day demonstration project may be approved by a field office of the Division of Solid Waste Management (DSWM) to determine the effectiveness of the ASR as alternate daily cover at a specific Class I landfill. If the ASR is determined to be effective and all the conditions below can be met, then a minor permit modification must be requested and approved by the DSWM to continue to utilize the ASR as alternate daily cover.

Conditions for the Use of Automobile Shredder Residue as Alternate Daily Cover

1. The Automobile Shredder Residue (ASR) must be used as, function as, and meet the purposes of daily cover.
2. Representative samples of the ASR must be collected in accordance with Chapter 9 of SW-846 and the samples analyzed for Resource Conservation and Recovery Act (RCRA)

metals (TCLP) and PCBs. The TCLP results must be below the hazardous waste regulatory limits and the PCBs must be below 50 ppm. Quarterly sampling and analyses is required in accordance with an approved quarterly sampling and analysis plan. At a minimum, the quarterly sampling of the ASR must be representative in accordance with Chapter 9 of SW-846 and the samples analyzed for RCRA metals (TCLP) and PCBs. The TCLP results must be below the hazardous waste regulatory limits and the PCBs below 50 ppm.

3. Written procedures must be approved by the Division of Solid Waste Management to ensure that disposal vehicle traffic will not be driven across the ASR (to prevent the tracking of the waste outside of the landfill operational areas). Only the landfill operational equipment, such as compactors and dozers, may come in contact with ASR when in storage, during placement, and after placement as alternate daily cover.
4. ASR shall only be used as daily cover on interior slopes of the landfill. The ASR shall not be applied to exterior slopes of the landfill. All ASR material used or stored on-site must be within the landfill operational footprint such that all run-off from ASR as daily cover or stockpiled ASR will be collected by the leachate collection system. No ASR-impacted run-off will be allowed to enter the stormwater control system.
5. The ASR as cover material must be kept moist by wetting as necessary to prevent dusting.
6. All ASR stockpiled daily cover shall be as near the daily working face as possible and must either be kept moist by wetting or covered as necessary to prevent dusting.
7. A minimum of six inches of compacted ASR must be used to ensure complete coverage of the placed solid waste. If insufficient ASR is available, the remainder of the wastes must be covered as required by the permit.
8. Once the ASR has been placed, the material must be compacted to minimize wind dispersal.



Patrick J. Flood, PE, Director
Division of Solid Waste Management
pn134: Original

AUGUST 27, 2015

Date