

# Installation of Diesel Emission Controls on Department of Transportation Maintenance Dump Trucks

**Funding Amount: \$166,135 for Retrofitting CTDOT Dump Trucks**

**Amount Spent: \$166,135**

**Project Description:** The Department of Environmental Protection granted \$166,135 in American Recovery and Reinvestment Act funding to the Connecticut Department of Transportation (DOT) to install emission controls on its fleet of dump trucks that are used for highway maintenance, including seasonal snowplowing.

Diesel oxidation catalysts are special mufflers that can remove significant amounts of fine particulates from diesel exhaust. Exposure to fine particulates has been linked to premature death from heart or lung disease. Fine particles, inhaled into the lungs, can aggravate existing heart and lung conditions to cause cardiovascular symptoms, arrhythmias, heart attacks, chronic obstructive pulmonary disease, asthma attacks and bronchitis. The U.S. Environmental Protection Agency has also classified diesel exhaust as a probable human carcinogen. The photo above shows a DOT snow-plowing dump truck with a diesel oxidation catalyst muffler installed.

The Recovery Act funding has allowed DOT to retrofit all of the eligible dump trucks in its fleet with diesel oxidation catalysts. Because these trucks are used throughout the state, this project will benefit citizens across Connecticut.



## Protecting Connecticut's Citizens from Exposure to Diesel Pollution

- 149 maintenance dump trucks retrofitted with emission controls for improved air quality throughout Connecticut
- 1.3 lifetime tons of fine particulates from diesel pollution reduced
- \$200,000 in health benefits, which represent the dollar value of avoiding the health effects resulting from exposure to fine particulates
- Two installation mechanics employed for three months each to install the emission control devices.
- Project completed in February of 2010