



The goal of the West Coast Collaborative is to leverage federal funds to strategically reduce emissions from the most polluting diesel sources in impacted communities. The Collaborative seeks to improve air quality and public health by targeting the highest polluting engines with the most cost effective control strategies.

## DERA 2017: Municipal Vehicle Replacements & Retrofits in Phoenix, Arizona

The West Coast Collaborative (WCC) is pleased to announce the City of Phoenix's receipt of a United States Environmental Protection Agency (US EPA) Diesel Emissions Reduction Act (DERA) grant to replace and retrofit municipal fleet vehicles in Phoenix, Arizona. This project will be implemented using \$692,252 in DERA grant funding combined with \$2,020,810 in matching funds from the City of Phoenix.

### What is the Project?

This project will replace 17 model year 1997-2003 heavy-duty diesel municipal vehicles with vehicles powered by model year 2017, or newer engines. The project will also involve the installation diesel oxidation catalyst (DOC) exhaust retrofit devices on 10 heavy-duty diesel fire pumps.

### Why is this project important?

This project's primary objective is to improve the environmental health by partnering with public fleet operators to replace and retrofit high-emitting, legacy heavy-duty diesel municipal vehicles with modern clean diesel technology. Exposure to diesel exhaust has been associated with decreased lung function and retarded lung development and can also exacerbate the symptoms of asthma, bronchitis and pneumonia. This project will reduce human exposure to diesel emissions as well as the negative health effects associated with exposure. Expected unquantifiable benefits of the project include increased awareness of the need to improve air quality, particularly among Arizona residents and others concerned with health and welfare.

### What are the Environmental Benefits?

Over the remaining lifetime of the 27 affected engines, these upgrades are estimated to reduce emissions of fine particulate matter (PM2.5) by 0.3 tons, oxides of nitrogen (NOx) by 4.6 tons, hydrocarbons (HC) by 0.6 tons, and carbon monoxide (CO) by 2.5 tons. Additionally, the reduction of PM2.5 emissions will also reduce black carbon (BC), which influences climate by directly absorbing light, reducing the reflectivity ("albedo") of snow and ice through deposition, and interacting with clouds.

### Who are the Partners on this project?

The project will be led by the City of Phoenix Office of Environmental Programs (OEP), which advances environmental protection and sustainability through leadership, education, and policy/program development in Phoenix, Arizona. Phoenix OEP received the DERA grant award through the WCC, and will distribute the grant funds to participating city departments/fleet operators. Phoenix OEP will be responsible for data monitoring and reporting for the project.

### What is the Collaborative?

The WCC is an ambitious partnership between leaders from federal, state, local, and tribal government, the private sector, and environmental groups committed to reducing diesel emissions along the West Coast. Partners come from all over Western North America, including: Alaska, Arizona, California, Hawaii, Idaho, Nevada, Oregon, Washington, Canada, Mexico and the Pacific Islands. The WCC is part of the US EPA National Clean Diesel Campaign ([www.epa.gov/cleandiesel](http://www.epa.gov/cleandiesel)).

### How can I find out more Information?

For more information on this project, please contact John Mikulin at US EPA ([mikulin.john@epa.gov](mailto:mikulin.john@epa.gov) / 415-972-3956). For more information on the WCC, please visit our website. [www.westcoastcollaborative.org](http://www.westcoastcollaborative.org)