



WEST COAST COLLABORATIVE

A public-private partnership to reduce diesel emissions

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 2014: Delivery Truck Replacements in the San Joaquin Valley

The West Coast Collaborative (WCC) is pleased to announce the San Joaquin Valley Unified Air Pollution Control District's (SJVUAPCD) receipt of a United States Environmental Protection Agency (US EPA) Diesel Emissions Reduction Act (DERA) grant to replace delivery trucks operating in the San Joaquin Valley. This project will be implemented using \$677,214 in DERA grant funding combined with \$3,645,671 in matching funds from SJVUAPCD and participating trucking fleets.

What is the Project?

This project will replace 48 model year (MY) 1991–2003 class 5 and 6 heavy-duty diesel delivery trucks with trucks powered by 2013 or newer model year engines.

Why is this project important?

Exposure to diesel exhaust has been associated with decreased lung function 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. The trucks to be replaced under this project transport goods from distribution centers within the San Joaquin Valley and operate at least 50% of their time within the Valley. The San Joaquin Valley continues to face significant air quality challenges and remains in non-attainment for ozone and particulate matter. Oxides of nitrogen (NOx) is a precursor to the formation of ground-level ozone and heavy-duty diesel trucks remain the greatest source of NOx emissions within the Valley.

What are the Environmental Benefits?

Over the remaining lifetime of the 48 affected engines, these replacements are estimated to reduce emissions of oxides of nitrogen (NOx) by 329 tons, fine particulate matter (PM2.5) by 16.74 tons, hydrocarbons (HC) by 47 tons, and carbon monoxide (CO) by 193.73 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 administered by SJVUAPCD, a regional agency with jurisdiction over air quality in the San Joaquin Valley Air Basin. SJVUAPCD received the DERA grant award through the WCC, and will distribute the grant funds to participating truck fleets. SJVUAPCD 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, the Pacific Islands, Canada and Mexico. The WCC is part of the US EPA National Clean Diesel Campaign (www.epa.gov/cleandiesel).

How can I find out more information?

For more information on this project, please contact Tyler Cooley at US EPA (cooley.tyler@epa.gov or 415-972-3937). For more information on the WCC, please visit our website. www.westcoastcollaborative.org