

## **FINAL REPORT**

Contract No. MS07061

Demonstrate Retrofit Devices  
On One Off-Road Vehicle (Showcase Project)

Submitted by the City of Los Angeles – Dept. of General Services

October 28, 2014

***Prepared for the Mobile Source Air Pollution Review Committee (MSRC)  
under the AB2766 Discretionary Fund Work Program***



## **Acknowledgements**

The City of Los Angeles – Department of General Services acknowledges our co-sponsors of this project; The MSRC, City of Los Angeles – Bureau of Street Services, Clean Diesel Technologies Inc. (CDT).

This report was submitted in fulfillment of Contract No. MS07061 “Demonstrate Retrofit Devices On One Off-Road Vehicle (Showcase Project)” sponsored by the Mobile Source Air Pollution Reduction Review Committee (MSRC). The work was completed as of February 3<sup>rd</sup> 2012.

## **Disclaimer**

The statement and conclusions in this report are those of the contractor and not necessarily those of the Mobile Source Air Pollution Reduction Review Committee (MSRC) or the South Coast Air Quality Management District (SCAQMD). The mention of commercial products, their sources or their uses in connection with material reported is not to be construed as either an actual or implied endorsement of such products.

## **Project Chronology**

October 31, 2008 – City entered into a contract with MSRC MS07061 from 10/31/08 to 08/30/10.

August 31, 2010 – City entered into a contract modification, MS07061A. The purpose of the modification was to change the Diesel Particulate Filter (DPF) provided by Huss to one provided by Clean Diesel Technologies (CDT).

October 31, 2010 – City entered into another contract modification, MS07061B. The purpose of this modification was to allow for an extended 18 month time period from 10/31/2010 to 2/28/12 to complete the contract requirements due to the DPF re-match from Huss to CDT.

February 3, 2012 – City completed the public outreach portion of the project at Cal State Long Beach – Clean Cities Coalition meeting.

February 29, 2012 – City entered into another contract modification, MS07061C. The purpose of this modification was to allow for an extended 12 month time period from

2/29/12 to 02/28/13 to complete the contract requirements due to the DPF re-match from Huss to CDT.

November 30, 2012 – City vehicle # 44905 completed 701 hours of usage with the DPF device provided.

### **Project Description and Work Performed**

The City of Los Angeles entered into an agreement with the Mobile Source Air Pollution Reduction Review Committee (MSRC) "Showcase" project in an effort to demonstrate clean air Diesel Particulate Filters, (DPF) for the purpose of examining the feasibility of effectively using this technology to assist the DPF manufacturer to ultimately gain enough data verification in order to verify their product with the California Air Resources Board. The City agreed to install a DPF device on City equipment # 44905, a 2004 CAT, Tractor Wheeled Loader. As a result of this Showcase project along with other testing from other agencies, CDT was successful in obtaining CARB verification.



### **Problems Encountered**

Under the Showcase initial match under contract MS07061, it was determined that the original manufacturer, HUSS would be the best fit for City equipment # 44905. However, due to operational changes to the City equipment it was later determined that another DPF device would be a better match for the equipment usage. Thus, the DPF device was switched from HUSS to CDT. This switch led to a request for two contract modifications in order to log the required 700 hours of usage with the CDT DPF device.

## Photographs and Public Outreach

On February 3, 2012 staff from City of Los Angeles – General Services participated as a vendor with an informational table at a City of Long Beach – Clean Cities Coalition public event at Long Beach City College. The event was free and made available to the general public. Over 50 attendees were present at the workshop. Handouts were given with an overview of the project activity and the MSRC logo was visible on each handout.



Outreach Table at Long Beach City College – February 3, 2012



Clean Cities Coalition attendees – February 3, 2012

### **Summary and Conclusions**

The “Showcase” Program provides an excellent opportunity for municipalities to modify their diesel-fueled equipment with adding DPF devices, where the technology is available. By working closely with manufacturers, the City has helped to develop the DPF alternatives that might not have been otherwise available. Significant air pollution has been reduced using this technology. We believe that the City of Los Angeles project, in conjunction with the MSRC is an excellent resource to the residents of the City aimed at reduction in air pollution emissions to improve air quality.