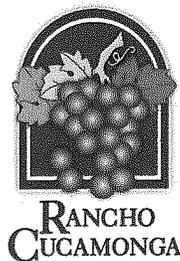


Final Report  
ML 06032  
City of Rancho Cucamonga

**CONTRACT NO. ML06032  
DEVELOPMENT OF ALTERNATIVE FUELING  
INFRASTRUCTURE AND PURCHASE OF TWO CNG  
DUMP TRUCKS  
CITY OF RANCHO CUCAMONGA  
August 2009**



Prepared for the Mobile Source Air Pollution Review Committee (MSRC) under the AB  
2766 Discretionary Fund Work Program

## **Acknowledgements**

City of Rancho Cucamonga' key personnel involved in this project were: Greg Gunski, Fleet Supervisor and Curt Billings, Associate Engineer.

Gas Equipment Systems Incorporated (G.E.S.I.) was selected to construct and maintain the Compressed Natural Gas (CNG) station located at the City of Rancho Cucamonga's Corporate Yard.

The South Coast Air Quality Management District contributed funding for the capital expenses of providing the new CNG Station as well as the purchase of two CNG vehicles. This report is being submitted in fulfillment of Contract ML 06032 for the development of alternative fueling infrastructure and purchase of two CNG dump trucks by the City of Rancho Cucamonga under the partial sponsorship with the Mobile Source Air Pollution Reduction Review Committee (MSRC). Work was completed as of August 20, 2009.

## **Disclaimer**

The statement and conclusions in this report are those of the contractor and not necessarily those of the Mobile Source Air Pollution 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 Description and Work Performed**

On March 3, 2006, the Mobile Source Air Pollution Reduction Review Committee (MSRC) of the South Coast Air Quality Management District Governing Board approved the proposal and awarded \$237,079 to the City of Rancho Cucamonga for the purchase of two CNG vehicles (\$50,000) and the construction of the CNG Station (\$187, 079).

The City Council authorized and awarded the purchase of two CNG powered dump trucks to Carmenita Truck Center of Santa Fe Springs who was the lowest, most responsive, responsible bidder in June 2007. Both vehicles were delivered, received and put into service by the Fleet Division in September 2008.

On October 3, 2007, the City Council approved the plans and specifications for the Compressed Natural Gas and Above Ground Fuel Tanks and authorized the advertising of the "Notice Inviting Bids". The Gas Equipment System Incorporated (G.E.S.I.) was the lowest, most responsive, responsible bidder and was awarded the contract at City Council

Final Report

ML 06032

City of Rancho Cucamonga

meeting on August 6, 2008 and construction began in March 2009. The station was completed and put into service in August 2009.

### **Problem Encountered**

The City encountered very few problems during the construction. Other than a couple of minor gas leaks experienced on the particulate filter, the project went fairly smooth.

### **Emissions Benefits**

Compressed Natural Gas (CNG) helps reduce the emissions of pollutants into the atmosphere. The City has been actively retiring its fleet of diesel-powered street sweepers and replacing them with CNG models since 2007. Each sweeper replaced with a CNG model provides at least 25% reduction in greenhouse gas emissions over diesel. The use of low-emission alternative fuel vehicles is an effective strategy to reduce mobile source emissions.

The emission benefits associated with the CNG infrastructure typically are assigned to the alternate fueled vehicles and not to the fueling facility to avoid double counting of the emission reductions. The CNG refueling facility is an integral component to the success of the City's overall emission reduction strategy.

### **Photographs and Outreach**

Articles were placed in the spring 2008 and Fall 2009 City Quarterly Newsletter - "The Grapevine" which goes to approximately 50,000 households in the area. The CNG fueling station and vehicles funded by MSRC display the MSRC decals on them.

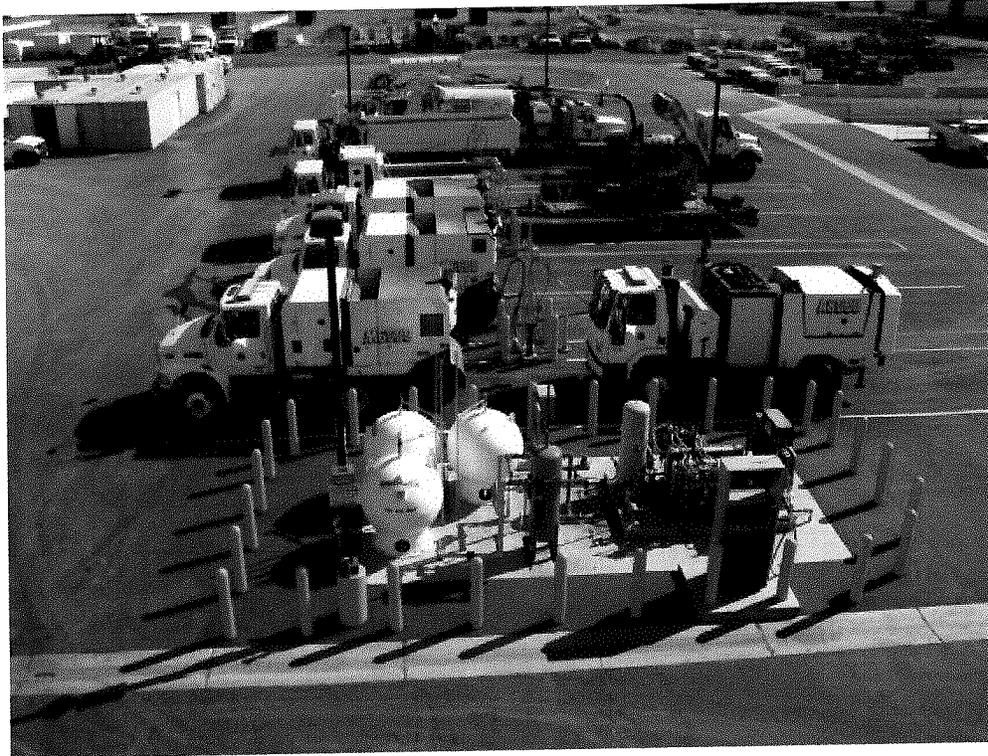
Please see attached for photographs.

### **Summary and Conclusions**

The Grant funding from Mobile Source Air Pollution Reduction Review Committee provides an opportunity for municipalities to build their own Compressed Natural Gas fueling stations to be used by the City and other local municipalities and replace their diesel-fuel heavy duty vehicles with alternative fuel replacements by offsetting the added cost of construction and the purchase of CNG vehicles.

The City of Rancho Cucamonga submitted a grant and received \$237,079 for the construction of CNG fueling station and the purchase of two CNG vehicles. This grant not only benefits City of Rancho Cucamonga and its residents, but also those residents and business persons traveling through our City.

**Attachment:**



Final Report  
ML 06032  
City of Rancho Cucamonga



Project Summary ML06032 – Development of alternative fueling infrastructure and purchase of two CNG dump trucks.

Contractor:

City of Rancho Cucamonga  
9153 Ninth Street  
Rancho Cucamonga, CA 91730  
Contact: Greg Gunski – 909-477-2730  
MSRC Award Value: \$237,079

Background

The City of Rancho Cucamonga was awarded MSRC Clean Transportation Funding for the development of alternative fueling infrastructure and purchase of two (2) CNG dump truck vehicles.

Project Objective

The objective of this project was to assist the City of Rancho Cucamonga in acquiring vehicles with the cleanest fuel available for street sweeping and street maintenance by replacing older diesel street sweepers and roll-off dump truck with compressed natural gas (CNG) vehicles as well as to develop a compressed natural gas (CNG) fueling station.

Implementation

Both CNG dump trucks were purchased from Carmenita Ford Truck and delivered on March 11, 2008. All dump truck operators were trained on how to drive and operate the new CNG vehicles. As soon as the training was completed and the vehicles were inspected by the City Fleet staff, the vehicles were placed into service and have been serving the City ever since. The vehicles are garaged at the City's Corporate Yard located on Ninth Street.

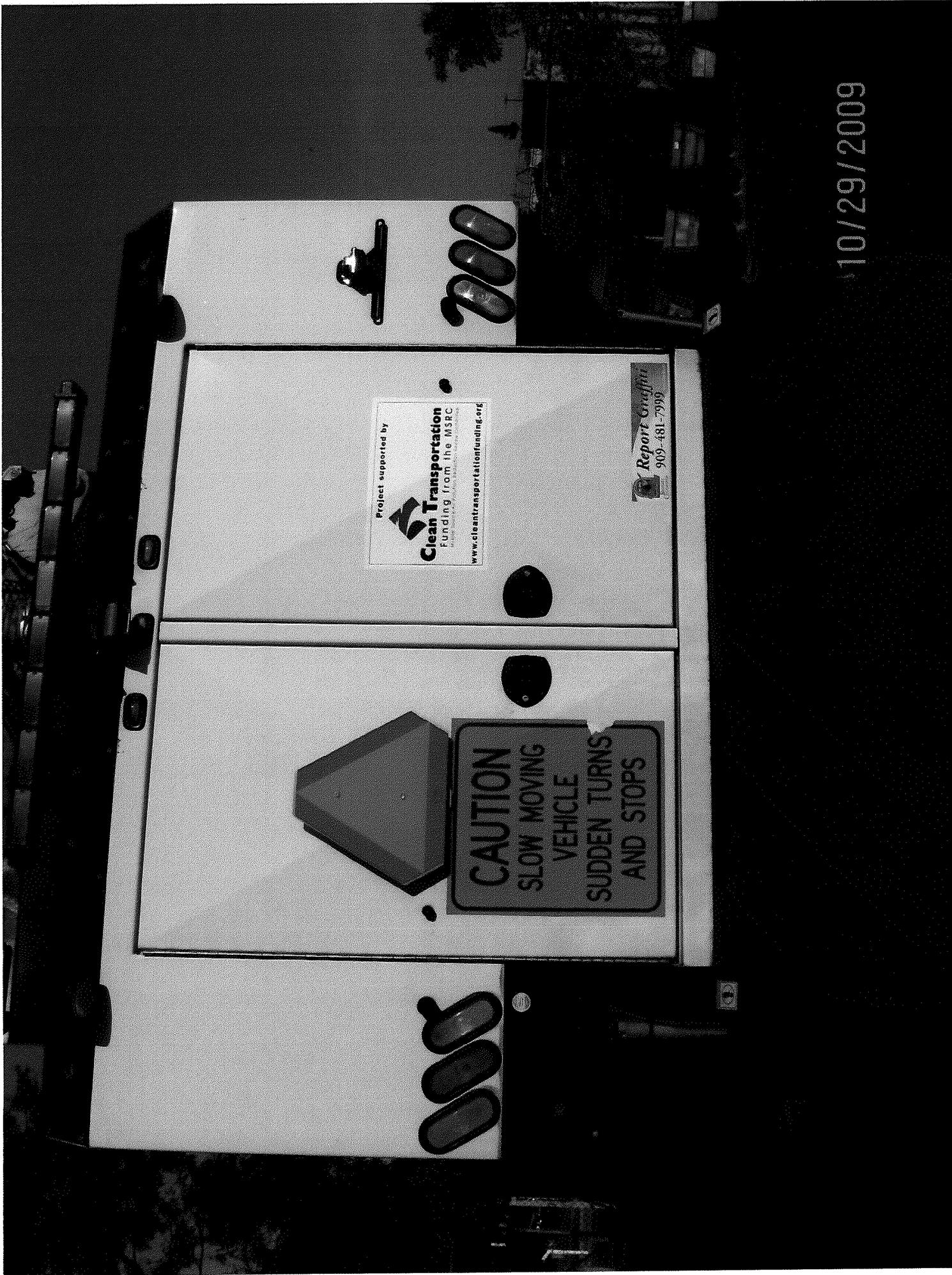
On October 3, 2007, the City Council approved the plans and specifications for the Compressed Natural Gas and Above Ground Fuel Tanks and authorized the advertising of the "Notice Inviting Bids". The Gas Equipment System Incorporated (G.E.S.I.) was the lowest, most responsive, responsible bidder and was awarded the contract at City Council meeting on August 6, 2008 and construction began in March 2009. The station was completed and put into service in August 2009. Currently, refueling of the trucks is performed overnight using the brand new CNG fueling station located at the Corporate Yard.

Project Cost

As part of FY 06/07 Local Government Match Program; the MSRC contributed co-funding in the amount of \$50,000 towards the purchase of the vehicles and \$187,079 for the construction of CNG fueling station; a grand total of \$237,079. The City of Rancho Cucamonga contributed \$346,700 in local funds toward the purchase of the vehicles and \$617,752 toward the construction of CNG fuel station. Total cost is \$1,201,531.

Project Expansion and Replication Potential

The use of low-emission alternative fuel vehicles is an effective strategy to reduce mobile source emissions. The purchase of alternative fuel vehicles is replicable by local agencies within the South Coast Air Quality Management District.

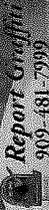


Project supported by

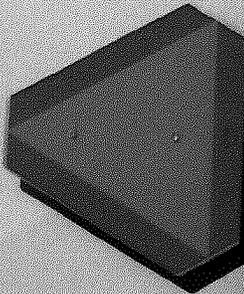


**Clean Transportation**  
Funding from the MSRC

[www.cleantransportationfunding.org](http://www.cleantransportationfunding.org)



**Report Graffiti**  
909-481-7999



**CAUTION**  
SLOW MOVING  
VEHICLE  
SUDDEN TURNS  
AND STOPS

200

200

10/29/2009



10/29/2009





Sweeper →

Sweeper →

CAUTION  
SLOW MOVING  
VEHICLE  
SUSPENDING  
AND STOPPING

CNG  
CLEAN - AIR - FUEL

Clean Transportation

1200158

CAUTION

