

MS18012
**New Compressed Natural Gas (CNG) Fueling Facility at the City of Hermosa
Beach Public Works Yard**

City of Hermosa Beach
October 24, 2019

Prepared for the Mobile Source Air Pollution Review Committee (MSRC)
under the AB 2766 Discretionary Fund Work Program.¹

Acknowledgements – The City of Hermosa Beach would like to acknowledge the following MSRC Contracts Administration staff: Matt Mackenzie, and Cynthia Ravenstein. The City of Hermosa would also like to acknowledge their Public Works Department staff for the purchase and installation of the equipment, including: Ellis Freeman, Jennifer McMurrough, Jim Beedy, Mike Hedrick, Eric Wilcosky, John Cordova, Robert Ramos, Brad Cocking, and Kristy Morris.

This report was submitted in fulfillment of MS18012 and New Compressed Natural Gas (CNG) Fueling Facility at the City of Hermosa Beach Public Works Yard by the City of Hermosa beach under the partial sponsorship of the

¹ 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.

Mobile Source Air Pollution Reduction Review Committee (MSRC). Work was completed as of January 10, 2019.

Project Description & Work Performed

This project installed a new GreenFIX Compressed Natural Gas (CNG) fueling station and sound protection enclosure at the City of Hermosa Beach Public Works Yard located at 555 6th Street Hermosa Beach.

The city currently has five (5) medium-duty Public Works vehicles that were converted from gasoline to CNG. The project includes the addition of 2 slow-fill hoses for overnight fueling of City's Public Works CNG vehicles.

The CNG fueling station will reduce fuel costs and improve operational efficiencies and the sound-proof enclosure will provide shelter from the inclement weather including rain and heat and reduce noise impacts to surrounding residents.

The projects was paid for with \$36,000 in grant funding from the Clean Transportation Funding™ from the Mobile Source Air Pollution Reduction Review Committee (MSRC), a committee of the South Coast Air Quality Management District (SCAQMD).

The City of Hermosa Beach contributed \$36,029 in regional formula funds the City receives annually from the Assembly Bill 2766 Motor Vehicle Subvention Program (AB 2766).

The Subvention Program receives its funding from a \$6 motor vehicle registration fee surcharge. Local governments receive 40 percent of these funds and must use the money to implement programs that reduce air pollution from motor vehicles.

The City of Hermosa Beach is committed to implementing the City's Clean Fleet Vehicle Purchasing Policy to reduce vehicle emissions from its fleet. CNG is a fuel that burns cleaner and is less expensive than either gasoline or diesel fuel, with 20-30 percent fewer greenhouse gas emissions, and 95 percent fewer tailpipe emissions than petroleum-based fuels.

Problems Encountered

Problems encountered during the project included delays in the delivery of the fueling station and the installation of a new gas meter. There was a delay of approximately 2 months from the expected delivery date provided by the fueling station vendor. Southern California Gas Company took 4 months to install a new service when the

existing gas meter at the location was determined to be insufficient to support the new station.

Emissions Benefits

The City of Hermosa Beach operates:

3 - Ford F250 trucks

2 - Ford F350 trucks

All are converted to CNG and use an average of 450 gallons (gge) each per year. With this project, we eliminated their need to drive to distant filling stations which reduced their annual usage by approximately 100 gallons each (above the 450 annual gallons).

Photographs & Outreach





The City of Hermosa Beach has a dedicated project page highlighting the project benefits and acknowledging MSRC for the funding contribution:

<http://www.hermosabch.org/index.aspx?page=961>

Summary and Conclusions

In the months since its installation, the fueling station has been operating as expected and has been a great benefit to City staff and vehicles. Having the station on site has saved many hours per week of staff time that was previously used driving to distant stations to fuel up. This has consequently saved approximately 10 gallons of fuel per week that was used by these vehicles to drive to the other stations.

Despite a few delays during installation, the overall process was straightforward and the end result was a success. In hindsight, the City could have contacted the utility companies much earlier in the process to help understand the infrastructure concerns, coordinate efforts, and avoid delays during installation.

Staff is using the station daily and the project has reemphasized the usefulness and importance of the City's alternative fuel vehicle inventory. The project aligns strategically with the City's overall emissions reductions goals. The station's performance and usage will be monitored and included in the City's annual reports to the MSRC.