

Final Report

Contract Number MS11011

Funding for New CNG Infrastructure



edcodisposal.com

“We’ll Take Care of It”

September 24, 2013

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

Acknowledgements

This project was completed with the assistance of Mansfield Oil and Gas Company, Steve South, President/Chief Executive Officer of EDCO, Efrain Ramirez, Vice President/General Manager of EDCO and Alan Walsh, Vice President/Chief Financial Officer of EDCO.

This report was submitted in fulfillment of Contract Number MS11011 and Funding for New CNG Infrastructure by EDCO under the partial sponsorship of the Mobile Source Air Pollution Reduction Review Committee (MSRC). Work was completed as of May 27, 2013.

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 Description & Work Performed

EDCO's objective was to construct a time-fill CNG station to fuel its CNG collection fleet. EDCO built the infrastructure needed and Mansfield Oil & Gas Company was the contractor to supply and install the equipment.

Problems Encountered

No problems were encountered by EDCO.

Emissions Benefits

EDCO's resources, fuel costs and employee time will be significantly reduced by being able to fuel its CNG collection fleet overnight. Emission reductions are accounted through the operation of EDCO's CNG collection fleet.

Photographs & Outreach

In the Spring 2013 issue of the *EDCO Insider*, attached, EDCO featured the article, "Fueling Our Trucks Overnight." In the Summer 2013 issue of EDCO's *Environmental Times* newsletter, attached, EDCO featured a similar article, "EDCO is Now Running on CNG" along with time-fill station photos.

Also, attached are supporting documentation photos of the CNG Compressor and time-fill stations.

EDCO INSIDER

Company News, Announcements & Trash Talk

Spring 2013



Employee Spotlight



Lupe Ruiz

Lupe started his career in September 1985 as a residential driver for Ramona Disposal. Lupe laughed as he remembered his first day. His manager took one look at this young skinny man standing in front of him and said "You sure you're gonna make it?" At the end of the day Lupe's manager asked the driver training Lupe how he did and the driver answered "He's gonna make it!"

Lupe quickly moved through many positions including commercial driver, roll off driver, bin delivery driver and container maintenance. In 1992, he was promoted to the Operations Supervisor at RDS. Soon after that Lupe took on another challenge and started overseeing the transfer station at Escondido Disposal. As EDCO continued to grow and prosper so did Lupe. When EDCO built the transfer station at the Ramona facility, supervising that became part of Lupe's responsibilities. Then in 2003, EDCO opened the MRF at the Escondido facility and Lupe responded to that challenge too. Finally in May 2007, Lupe moved to his current position as EDCO's Recycling Facility Manager for the South San Diego Locations.

Lupe lives in Mexico with his wife Christina. He has 3 sons named Eli, David and Gary that have all grown up and moved out. In 2011, Lupe and Christina added to their family when they adopted 2 small children, a brother and sister from Mexico, named Ximena and Sami. Lupe enjoys spending as much time as possible with his family. They like going to the movies, eating at good restaurants, and visiting loved ones.

When asked what he enjoys most about working at EDCO he said "Everything! I love the family atmosphere here, it makes a big difference!"

40th Anniversary Celebration

Tony Lopez recently celebrated his 40th anniversary with EDCO. Employees along with Tony's wife Silvia came together to celebrate this remarkable occasion and a special presentation was held which included a \$5,000 bonus check, a second gold watch and a certificate of recognition.

Tony began his career in the solid waste industry in April, 1973. He began working in the container repair section and was quickly promoted to a residential collection route. As the company continued to grow, Tony began driving a roll-off truck and has done so for the majority of his 40 year career. Tony and his wife Sylvia lived in Encinitas for many years, where they raised 4 children. The Lopez family recently moved to a ranch in Murrieta, where Tony will spend his retirement years after he leaves the company on April 30, 2013.

Tony has been a quiet, hardworking and loyal employee and is respected and liked by customers and fellow employees alike. He will be missed by the entire EDCO family, but we all wish him the best in his retirement.



Tony Lopez, celebrating his 40th anniversary, with his wife Silvia and Ed Burr

Fueling Our Trucks Overnight

EDCO has completed construction of its new Signal Hill time fill Compressed Natural Gas (CNG) Station!

What does this mean? Well, while we are all getting our much needed sleep at night our CNG trucks are fueling up. Time-Fill is the term used for equipment that fills natural gas vehicles over a period of hours using lower pressure. Filling up is as easy as 1-2-3. When our drivers are done for the day they simply connect the fuel nozzle, flip the switch to begin fueling the vehicle and go home and get some rest. The next morning the trucks are filled and ready for another day's route.

The second time fill CNG Station is currently under construction at the Buena Park terminal. In addition, EDCO will be building a public fuel station at Buena Park that will be open seven days a week using credit/debit cards to access CNG fuel.

Employees pictured above are Oscar Ochoa from Lemon Grove, Louise Thorpe and Jorge Pardenilla from Armour, Jorge Henriquez and Dimas Cisneros from Signal Hill, Ismar Velasco from Ramona and Maria Gomez from San Marcos.

"We'll Take Care of It"

Environmental Times

Summer 2013

Holiday Schedule



Labor Day Service Delayed

EDCO will observe the Labor Day holiday, Monday, September 2, 2013. Residential collection will be delayed one day following the holiday.

Can We Help?



Do you have questions regarding your service? Call and speak to one of our friendly customer service representatives.



EDCO is Now Running on CNG

EDCO has completed construction of our new time-fill Compressed Natural Gas (CNG) Station located at the Signal Hill location!

CNG time-fill allows vehicles to be filled up steadily and quietly overnight as the trucks are parked. Time-fill is the term used for equipment that fills natural gas vehicles over a period of hours using lower pressure. When our drivers are done for the day, they simply connect the fuel nozzle and flip the switch to begin fueling the truck. The next morning the trucks are filled and ready for another day's route.

100% of EDCO's regular collection truck routes at our Signal Hill location now run on CNG! Converting to CNG vehicles is another way EDCO is making a difference in our communities. CNG vehicles release fewer emissions into the air and therefore are better for our environment. EDCO's CNG fleet is now playing a key role in reducing residents' exposure to airborne toxics and other pollutants found in diesel emissions.

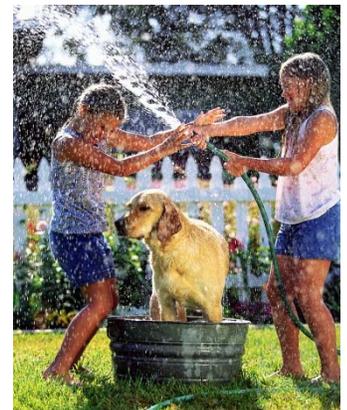
School's Out!

For most kids, summer time is vacation time from school and the sound of children playing begins to run through our neighborhoods. Kids of all ages love trash trucks and their interest and curiosity can draw them dangerously close to operating vehicles. Our cautious teams of collectors watch out for pedestrians, animals and cars, but small children and pets can easily go unnoticed around a large truck.

Please help us ensure public safety by always supervising children and restraining pets whenever collection trucks are operating in your neighborhood.

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Family Owned & Operated
EDCO

Supporting Documentation
EDCO – Contract Number MS 11011
Photographs of Completed Installations

Compressed Natural Gas (CNG) Compressor unit:



CNG Gas Dryer in foreground with Compressor in the background:



CNG Time Fill post, with Emergency Shutdown:



CNG Compressor control board:



Summary and Conclusions

EDCO currently has several compressed natural gas (CNG) collection vehicles in its fleet and plans to continue to expand its CNG fleet. The addition of EDCO's new time-fill station will help reduce fuel costs and further reduce greenhouse gas emissions.