



COMMERCIAL, INDUSTRIAL RESIDENTIAL WASTE & RECYCLING SERVICES
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Final Report

Serv-Wel Disposal & Recycling
CNG Fuel Station Installation
Contract# MS18123

Date Prepared; August 20, 2019
By Jim Nevarov

This report was prepared for the Mobile Source Air Pollution Review Committee (MSRC)
under the AB 2766 Discretionary Fund Work Program.

Acknowledgements

Serv-Wel Disposal and Recycling would like to acknowledge Mobile Source Reduction Review Committee for their commitment in their support, help and guidance towards Serv-Wel Disposal & Recycling completing project MS18123.

This report was submitted in fulfillment of MSRC Contract # MS18123, for the project to construct a new limited-access CNG Station by Serv-Wel Disposal & Recycling under the sponsorship of the MSRC Committee. Work was completed and the station placed in service as of August 23, 2019.

Disclaimer

The statement and conclusion 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 constructed as either an actual or implied endorsement of such products.

Project Description and Work Performed

Purpose

The project site is located at 901 S. Maple Ave., Montebello, CA 90640. Our site houses our Office, Maintenance Shop, Wash Rack, Tire Room and a Welding Shop. We have parking for (10) solid waste collection trucks and support vehicles. Mobile Source Air Pollution Reduction Review Committee (MSRC) provided grant funding support to Serv-Wel Disposal new compressed natural gas (CNG) station project.

The nearest CNG fuel station is about 3 miles away in the city of Pico Rivera, CA. The average time to travel to and from the facility is about 25 minutes. The fueling process takes over 30 minutes. Placing the CNG natural gas station on our property at 901 S. Maple Ave will save our company an average of 40 minutes a day in traveling and fueling and will decrease emissions and traffic congestion to and from the fuel site.

Planning

Serv-Wel Disposal together with OnBoard Dynamics, were able to facilitate a cohesive design to implement an easy access for our fleet. Serv-Wel Disposal, OnBoard Dynamics and our subcontractor Amtek Construction maintained a regular schedule of meetings to discuss progress, updates, changes and challenges faced during this process. Other entities such as government agencies and utilities were also included in the planning of the facility as needed.

Design

It was determined that the fuel station would be installed in the South East Corner of the property. The system would encompass approximately 2,000 square feet. OnBoard Dynamics was responsible for planning the fuel station and fuel delivery nozzle layout. The design includes 1 compressor, a dryer and (10) fuel delivery hoses. This is a slow fill CNG fuel station. This delivery system will provide our trucks with 24gge per hour. All required permits were obtained. All local and state codes and standards were adhered to throughout the installation.

Construction

Construction was due to begin in January 2019 with a completion date of March 2019, but due to unforeseen architectural designs and city permits and fees, construction did not start until June of 2019 with a completion date of August 2019. The construction work included concrete work, underground CNG piping and 2 bollards were installed in front of every fuel post. System and equipment installation was completed in August 2019. After installation,

the compressor and the electrical systems were thoroughly tested and found that a nozzle was defected and needed to be changed out.

Opening and Operation

The facility will open and began full fueling operation on August 23, 2019. The system is capable of fueling (10) vehicles at one time using a slow fill process. The fueling process is designed to fuel the entire fleet at the same time, overnight. The fueling process takes several hours.

Problems Encountered

The primary setback was that the original construction and station design companies along with the city of Montebello delayed the project for six months with no progress on the project. This project requires involvement of several different entities and agencies, coordination with these entities proved to be a challenge when logistics and changes came into play. Due to this the project encountered a six month delay. Once the system was in place and the testing began, there were several leaks which were promptly fix and or new parts were ordered. After all the delays, the project was completed almost (5) months after its original scheduled completion date.

Emissions Benefits

The installation of this system has reduced, on road fleet hours by an average of 200 hours per month. This has significantly decreased traffic congestion on the route to and near the public fuel station. It has also alleviated overcrowding and wait times at the public fuel station.

Press Release

Below is a copy of the press release that was released on August 23, 2019.



FOR IMMEDIATE RELEASE

Contact: Jim Nevarov
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Serv-Wel Disposal Opens CNG Fuel Station
Compressed Natural Gas

Montebello, California, August 23, 2019 – Serv-Wel Disposal and Recycling is opening a new compressed Natural Gas (CNG) fueling station at their Montebello site. This site will service Serv-Wel's fleet of approximately 10 trash trucks per day from this location. These trash trucks serve the communities of Long Beach, Montebello, Santa Fe Springs and Torrance.

This new station supports state and local goals to decrease traffic congestion on the route to and near the public fuel stations, while enhancing air quality by reducing criteria pollutants and greenhouse gas emissions. Quality of air is an everyday concern for all of our communities. Converting just one trash truck from diesel to natural gas is the equivalent to taking 325 cars off the road. Clean air is very important for long-term quality of life. CNG is the cleanest burning transportation fuel on the market today being very environmentally friendly.

Serv-Wel Disposal & Recycling takes pride in their family legacy and attributes the company's success to serving the individual needs of its customers. Because the business is still family-owned and operated, its staff is personally involved in all of the day-to-day operations, resulting in personalized attention to detail and unparalleled service for every customer large or small. Give us a call, we'd love to talk trash with you! (888) 768-2246

A significant financial contribution for the project was provided by a grant from the Mobile Source Air Pollution Reduction Review Committee (MSRC) through the Clean Transportation Funding Program. The Mobile Source Air Pollution Reduction Review Committee (MSRC) was formed in 1990 when Assembly Bill AB 2766 was signed into law authorizing a \$4 motor vehicle registration fee. Thirty percent of the \$4 fee or approximately \$14 million annually is used for programs administered by the MSRC. All of the programs eligible for funding must reduce air pollution from mobile sources.

Membership of the MSRC is made up of representatives from the transportation agencies of Riverside, Los Angeles, San Bernardino and Orange County, as well as the Southern California Association of Governments, Southern California Rideshare, California Air Resources Board and the South Coast Air Quality Management District.

Photographs

Below are pictures of the complete CNG Station.







Summary

A CNG fueling station was installed at the project location 901 S. Maple Ave, Montebello, CA. The successful design, construction and reliable operation of the station have been demonstrated during the demonstration period. The system is cable of fueling up to 10 trash trucks at a time using the time-fill system regularly on week nights.

This system is now in full operation and has decreased on-road fleet hours by more than 200 hours per month. The station construction and start-up followed well-established practices for CNG stations implementation (i.e. design, construction and commissioning). This station was designed to meet all specifications and codes standard for CNG fueling stations.

X

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