



**AB 2766/MSRC Alternative Fuel Infrastructure Program Contract
CONTRACT NO. MS12004
Waste Management Collection and Recycling, Inc.**

Executive Summary

Waste Management Collection and Recycling, Inc. (WM) has partnered with the Mobile Source Air Pollution Reduction Review Committee (MSRC) to construct a new limited-access compressed natural gas (CNG) fueling station located at 13793 Redwood Avenue in Chino, California. As part of its agreement with the MSRC, WM has developed a report to outline the progress achieved to date and final results of the project to install a CNG fueling station and to upgrade the vehicle maintenance and repair facility.

With the \$175,000 in grant support from the MSRC, WM was able to install the following in order to complete construction of the CNG fueling station:

- A portable solution trailer incorporating:
 - o Four time-fill positions
 - o One fast-fill dispenser
 - o Compressor providing at least 266 SCF compression capability
 - o 2,000 SCF Buffer storage
 - o Gas dryer
- Time-fill dispenser assemblies to accommodate an additional 25 vehicles
- Card reading accepting major credit cards

In addition, the grant support from the MSRC allowed WM to complete the facility modifications and install a gas detection system, 6 exhaust fans with explosion-proof disconnects, a communication and data system, and backup generator.

Tasks Completed

WM has completed the tasks required as part of contract MS12004 with the MSRC. The following table outlines the complete project schedule and list of tasks for the CNG fueling station construction (Table 1), and the maintenance facility modifications (Table 2):

Table 1

| Task Number | Task Description | Task Completion |
|--------------------|---|------------------------|
| 1 | Portable Solution Trailer | Complete |
| 2 | Time-fill Dispenser Assemblies for Additional 25 Vehicles | Complete |
| 3 | Card Reading Device | Complete |

Table 2

| Task Number | Task Description | Task Completion |
|-------------|--|-----------------|
| 1 | Gas Detection System | Complete |
| 2 | Exhaust Fans with Explosion Proofs Disconnects | Complete |
| 3 | Communication and Data System | Complete |
| 4 | Backup Generator | Complete |

Results

WM’s objective in modifying the vehicle maintenance facility is to be compliant to maintain and repair natural gas vehicles. Additionally, the modifications will ensure safety when dealing with liquid fuels, specifically in the maintenance of CNG vehicles. This will assist in the continued deployment of low-emission transportation within WM, in addition to promoting the use of alternative fuels like natural gas a commercially viable and preferable fueling option.

Issues or Problems Encountered

During the course of the project, WM did not encounter any significant issues or problems.

Budget

WM expended \$1,701,069 implementing the facility upgrades. These expenses include WM’s co-funding (\$1,526,069) and MSRC grant (\$175,000). Please note that WM’s actual co-funding amount exceeds the original co-funding amount stated in the contract. Below is the contract cost breakdown and WM’s final costs:

Contract Cost Breakdown

| Description | Maximum AB 2766 Discretionary Funds payable under this contract | Other Co-Funding | Total Cost |
|--|---|--------------------|--------------------|
| Fueling station equipment and installation, including shipping and taxes, and program management | \$100,000 | \$1,320,179 | \$1,420,179 |
| Modify maintenance facility | \$75,000 | \$205,890 | \$280,890 |
| TOTALS | \$175,000 | \$1,526,069 | \$1,701,069 |

Conclusion

Natural gas is a clean, safe, and abundant, and is used as an alternative fuel to meet low-emission standards. Maintenance facilities servicing natural gas vehicles must be constructed or modified to meet safety requirements specific to the use of natural gas. Unlike most liquid fuels, natural gas is about 40% lighter than air and as a result, in the event of a leak natural gas will dissipate and therefore requires facilities to implement detection and ventilation systems to meet safety standards with the maintenance and repair facility. The modification of the maintenance facility will assist in the use and deployment of natural gas vehicles. WM is committed to reducing emissions and implementing cleaner solutions, such as the construction of alternative fuel infrastructure and natural gas vehicle deployment throughout the South Coast Air Basin.