

**FINAL REPORT**  
**MSRC CLEAN TRANSPORTATION FUNDING**  
**CONTRACT NO. ML18095**



**CITY OF GARDENA**

**LOCAL GOVERNMENT PARTNERSHIP PROGRAM**

**Prepared for the Mobile Source Air Pollution Review Committee (MSRC)**  
**under the AB2766 Discretionary Fund Work Program**

**February 1, 2021**

### **ACKNOWLEDGEMENTS**

The City of Gardena wishes to acknowledge the Mobile Source Reduction Review Committee for its funding and program support and guidance.

This report was submitted in fulfillment of MSRC Contract #ML18095 for the project entitled "Purchase of a Natural Gas Heavy-Duty Vehicle" by the City of Gardena under the partial sponsorship of the Mobile Source Air Pollution Reduction Review Committee (MSRC). The projects were all completed by December 3, 2018.

### **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 herein is not to be construed as either an actual or implied endorsement of such products.

## I. Scope, Purpose & Background

### **Project Description & Work Performed**

The Mobile Source Air Pollution Reduction Review Committee (MSRC) approved grant funding support to the City of Gardena for the purchase of an on-road, heavy-duty near-zero emission vehicle. The funding was used to purchase a 2019 Tymco 600 Regenerative Air Street Sweeper. The street sweeper has a compressed natural gas (CNG) engine utilizing near-zero emissions technology meeting Environmental Protection Agency/California Air Resources Board (EPA/CARB) standards.

The new zero-emission street sweeper replaced a 2001 sweeper, which had reached the end of its useful typical 10-year life expectancy. The new 2019 Tymco sweeper is used daily to provide a constant service to the residents of the City of Gardena by maintaining clean city streets that are free of debris.

## II. Cost-Benefit Analysis

### **Emission Reductions from an Individual Street Sweeper (pounds/vehicle/year)**

<b>Sweeper Type</b>	<b>NOx</b>	<b>PM</b>
Dual-Engine Alternative-Fuel Sweeper	468 (year 2003-2006) 265 (year 2007 + )	33

Source: [www.aqmd.gov/docs/default-source/rule-book/support-documents/rule-1186\\_1/staff-report-rule-1186-1.pdf?sfvrsn=2](http://www.aqmd.gov/docs/default-source/rule-book/support-documents/rule-1186_1/staff-report-rule-1186-1.pdf?sfvrsn=2)

### **Budget**

The City used Sewer Funds to purchase the near-zero emission street sweeper. The City also used the HGACBuy Cooperative Purchasing Program which offers vendors an opportunity to compete with their lowest bids and enables municipalities to obtain the best overall price for their procurement. HGACBuy, used exclusively for government entities, allows municipalities to procure items such as trucks and other fleet maintenance equipment for the lowest bidding price.

The City's budget is as follows:

<b><u>Project Funding</u></b>	
<i>Near-Zero Emissions Street Sweeper</i>	<b>\$350,375.75</b>
MSRC Funding	\$25,000.00
Sewer Fund	\$325,375.75
<b>TOTAL FUNDING</b>	<b><u>\$350,375.75</u></b>

### **III. Going Forward**

The City of Gardena Public Works Department is dedicated to maintaining and continually improving the safety and aesthetics of City infrastructure, including its streets. Furthermore, the City strives to provide these services at the highest level possible and at the lowest possible cost, all the while doing so in an environmentally friendly way. To perform essential public services like street sweeping in an environmentally friendly way, the City has sought to leverage clean technologies. Ultimately, the City aims to replace its fleet with a near-zero emission vehicles, and the funding received from MSRC assists the City in pursuing this goal. Going forward, the City will look to more funding avenues to purchase additional near-zero emission vehicles and expand its green infrastructure to further advance its clean air initiative.

### **IV. Public Outreach**

Figures 1-4 illustrate the City's outreach efforts to promote the purchase of the new near-zero emission street sweeper. The street sweeper was featured in the City's quarterly publication that is distributed to approximately 40,000 residents. The sweeper was also included in several city events and parades, such as an event for Public Works Week. Furthermore, the Public Works Department highlighted MSRC's role in the purchase of the vehicle on its website.

For more information, to report a sidewalk, curb, or gutter in need of repair, or to discuss the dual rights and responsibilities between property owners and the City of Gardena, contact the Public Works Department located at 1717 W. 162nd Street, between 7:30 a.m. and 5:30 p.m. Monday through Thursday and 7:30 a.m. to 4:30 p.m. on Friday, or call them at **(310) 217-9568**.

To report a pothole, please call the 24-hour hotline at (310) 217-9650. When calling please state the exact location of the pothole.

To submit a request for service on-line, click on one of the links below:

- Sidewalk Repair
- Street or Alley Paving
- Gutter Repair
- Pothole Repair



*One of Gardena's near-zero emission street sweepers, funded in part by the MSRC's Local Government Partnership Program.*

*Figure 1: A picture of the new near-zero emission Tymo street sweeper on the Public Works Department's website*



*Figure 2: New CNG street sweeper on display at an event for Public Works Week*



## General Services **PUBLIC WORKS**

**T**he City of Gardena's General Services Department provides integral services to the community by maintaining the City's infrastructure while promoting public health and safety. The General Services Department's responsibilities include the maintenance of streets, parks, traffic signals, and trees. In addition, the department reviews development proposals for compliance with City codes and construction standards and inspects projects for compliance with approved construction plans. The General Services staff also operates and maintains City-owned facilities and equipment.

In an effort to continue promoting clean air initiatives, the City of Gardena has partnered with Mobile Source Air Pollution Reduction Review Committee (MSRC) to purchase a 2019 Tymco street sweeper. The street sweeper has a compressed natural gas (CNG) engine utilizing near-zero

emissions technology meeting Environmental Protection Agency/California Air Resources Board (EPA/CARB) standards. The new 2019 Tymco street sweeper will be used daily to maintain the city streets, keeping them clean and free of debris.



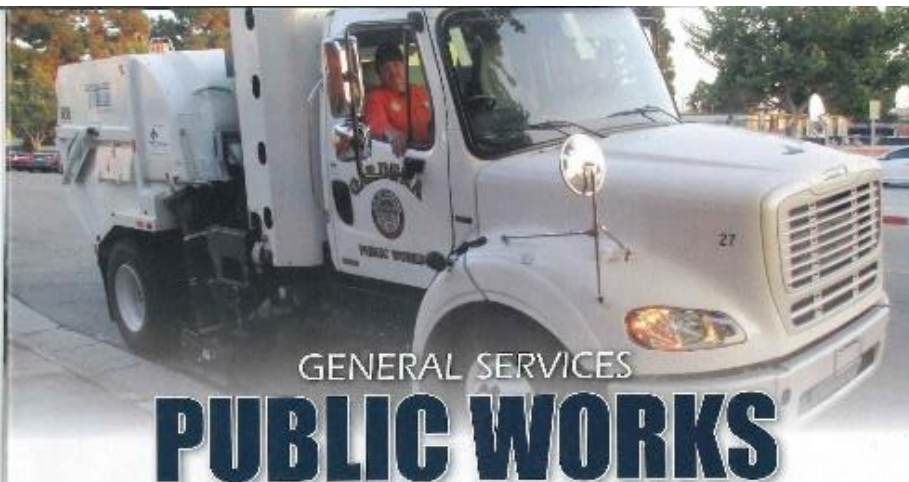
In order to perform routine street maintenance, the City of Gardena provides street sweeping year-round. On your regularly-scheduled street sweeping day (signs are posted on your streets), your vehicle should be moved to allow passage for the street sweeper. The only exception to this rule is if your street sweeping day falls on one of the Observed Holidays:

- **Presidents Day** – February 18, 2019
- **Memorial Day** – May 27, 2019
- **Independence Day** – July 4, 2019
- **Labor Day** – September 2, 2019
- **Thanksgiving Day** – November 28, 2019
- **Day After Thanksgiving** – November 29, 2019
- **Christmas Eve** – December 24, 2019
- **Christmas Day** – December 25, 2019
- **New Year's Eve** – December 31, 2019

For any additional information, please contact the General Services Department at (310) 217-9568.

Figure 3: City of Gardena's 2019 quarterly publication highlighting the City's partnership with MSRC to purchase the 2019 Tymco street sweeper





## GENERAL SERVICES PUBLIC WORKS

One of the main goals of the City of Gardena's General Services Department is to maintain and continuously improve the safety and aesthetics of city streets, facilities, and parks at the highest possible level. One essential function of General Services is graffiti abatement. Not only is graffiti a crime, it also lowers property values and discourages prospective businesses and residents from relocating to Gardena. Our team responds directly to resident calls 8 days a week, going into the community to remove graffiti from streets, rights of way, and parks. Since January 2019, the General Services Department has responded to over 2,900 reports of graffiti in the City of Gardena.

Graffiti removal technician William Polanco is frequently



seen driving around Gardena, talking to residents, and responding to graffiti reports. Will says, "I like making something look better than it was before. Seeing the walls tagged bothers me, and residents should not have to look at that. I enjoy making this city look better."

To report graffiti at any time, call the 24-hour Graffiti Hotline at (310) 217-9650. When calling please state the exact location of the graffiti. Residents can also report graffiti through Gardena Direct, which can either be accessed by downloading the app through Google Play and the Apple Store or by visiting Gardena's website at [www.cityofgardena.org/gardena-direct](http://www.cityofgardena.org/gardena-direct).

### STREET SWEEPING

In order to perform routine street maintenance, the City of Gardena provides street sweeping year-round. On your regularly-scheduled street sweeping day (signs are posted on your streets), your vehicle should be moved to allow passage for the street sweeper. The only exception to this rule is if your street sweeping day falls on one of the Observed Holidays:

- President's Day – February 17, 2020
- Memorial Day – May 25, 2020
- Veterans Day – November 11, 2020
- Thanksgiving Day – November 26, 2020
- Day After Thanksgiving – November 27, 2020
- Christmas Eve – December 24, 2020
- Christmas Day – December 25, 2020
- New Year's Eve – December 31, 2020
- New Year's Day – January 1, 2021

For more information, contact the Public Works Department, located at 1717 W. 162nd Street, between 7:30 am and 5:30 pm Monday through Thursday and 7:30 am to 4:30 pm on Friday, at (310) 217-9655.

Figure 4: The City of Gardena's 2020 publication featuring the new 2019 Tymco street sweeper