



FINAL REPORT

July 25, 2017

CONTRACT # ML 16023

City of Banning
Purchase of CNG Street Sweeper

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

FINAL REPORT

Acknowledgements

The City of Banning would like to thank the Mobile Source Air Pollution Reduction Review Committee (MSRC) for the opportunity that made the purchase of our new CNG street sweeper possible.

This report is submitted in fulfillment of ML16023, Purchase of a New CNG Street Sweeper and by *The City of Banning* under the partial sponsorship of the Mobile Source Air Pollution Reduction Review Committee (MSRC). Work was completed as of April 3, 2017.

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

In evaluating street sweeping services and equipment, City of Banning staff determined that in order to responsibly maintain a clean city and minimize environmental impacts, it was necessary to replace street sweeping equipment. Prior to applying for MSRC funding, the City owned a 2000 Tymo Street Sweeper that was put in operation in 2001, was in need of substantial repair and had exceeded its life expectancy. It was necessary to retire the equipment and replace it with new alternative fuel CNG equipment in order contribute to keeping the skies clear and the City streets clean from debris including preventing debris from entering the storm drains and local water ways.

As a result, on June 24, 2015, the City applied for the Mobile Source Air Pollution Reduction Review Committee (MSRC) grant funding in the amount of \$30,000. MSRC funds were awarded in the amount of \$30,000 and used to offset the cost of purchasing new CNG street sweeper equipment. The total purchase of the new CNG street sweeper amounted to \$300,618 with the remaining capital for this purchase being provided by SB 2766 funding.

Once grant funds were awarded, the City purchased a new Tymo 600 CNG street sweeper from Mar-Co Equipment Company utilizing the below outlined method:

Work Performed

The process of purchasing this CNG street sweeper began October 6, 2015. The vehicle was placed into service on May 23, 2016.



New Tymo 600 Compressed Natural Gas Street Sweeper purchased, in part, with MSRC funding

Task 1: Vehicle Procurement

Street sweeper specifications were prepared detailing vehicle requirements, performance parameters, technical quality assurance and warranty requirements.

Task 2: Bid Process

A Request for Proposal was issued to perspective street sweeper manufacturers and published on national bid boards. The bid opening was held on October 22, 2015. The proposals were evaluated by the City of Banning.

Task 3: Selection and Approval

After extensive investigation, a Tymco 600 CNG street sweeper was selected. On November 10, 2015 the City Council approved the purchase of this unit from Mar-Co Equipment Company in the amount of \$300,618.00, along with consent to accept grant funding from MSRC.

Task 4: Submission of Public Outreach Program

The Public Outreach Plan was submitted and approved by MSRC on December 11, 2015. This included promotion on the City's website, local Government Channel 10 and through the City's social media Facebook and Twitter accounts. Additionally, a press release was to be published through the local newspaper, the Record Gazette.

Task 5: Delivery of Street Sweeper

On May 10, 2016, the street sweeper was delivered. The Street Department personnel began training for the operation of this unit.

Task 6: Public Outreach Program

On May 19, 2016, press releases were published on the City's website, the City's Facebook page, Twitter account and also on the Local Government Channel 10.

Task 7: Operations Began

On May 23, 2016, the Tymco 600 CNG Street Sweeper was put into operation citywide.

Task 8: Public Outreach Program-continued

On July 8, 2016 a press release was published by the local newspaper, the Record Gazette as shown in the attached Exhibit "A".

Task 9: Disposition of Inoperable Street Sweeper:

The inoperable street sweeper was retired from the City's fixed asset list and auctioned through Ken Porter Auctions of Carson, California.

Task 10: Progress Reports

The City of Banning submitted all quarterly progress reports in a timely manner.

Task 11: Final Report

This report will act as the final report for this project.

Problems Encountered

The City of Banning has encountered very minor warranty issues with the new Tymco 600 CNG street sweeper; however, Mar-Co Equipment Company has been very responsive which has resulted in little down time and remediation of any equipment operational issues.

Emissions Benefit

The Street Sweeper is anticipated to operate 260 days per year with a total NOx Emission Reduction of 73.2 and PM Emission Reduction of 4.8.

Emission Reduced	Carbon Monoxide (CO)	Volatile Organic Carbon (VOC)	Nitrogen Oxide (NOx)	Fine PM (PM 2.5)	Greenhouse Gas (GHG)	Total Emission Reductions (Criteria Pollutants and GHG)
1 CNG Vehicle	5.5	13.8	73.2	4.8	1,400	1,497.3

Public Outreach

In May of 2016, the City implemented multiple public outreach activities promoting the MSRC co-funding of the street sweeper equipment through FaceBook and Twitter social media accounts. Additionally, promotional articles were published in the local Record Gazette newspaper as shown in Exhibit "A", as well as, on the City's website and on the Local Government Channel 10.

In addition to the above activities, a decal displaying the MRSC logo has been placed on the street sweeper as shown in the picture below. The decal will remain displayed on the equipment throughout the life of equipment and while it is in operation.



Summary and Conclusions

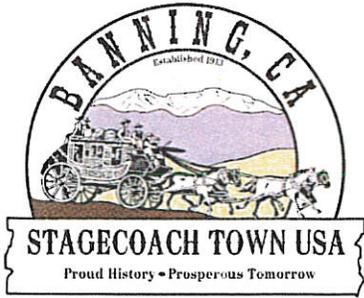
The City of Banning was able to utilize the funding from the Mobile Source Air Pollution Review Committee to purchase a new CNG powered Street Sweeper. This purchase has helped the City achieve its goal of keeping its streets and gutters clean; preventing debris and contamination from entering storm drains; and has contributed to cleaner air by reducing NOx and PM emissions.

The City is invested in the continuing efforts to improve the air quality in the South Coast Air Basin. As such, the City is appreciative of the on-going investments made by the Mobile Source Air Pollution Review Committee and the South Coast Air Quality Management District by helping to fund the purchase of reduced emission vehicles, a key component of this goal.

EXHIBIT "A"

RECORD GAZETTE PRESS RELEASE

JULY 8, 2016



CITY OF BANNING PRESS RELEASE



May 17, 2016: The City of Banning Public Works Department received a special delivery May 10, 2016 a new Tymco 600CNG Regenerative Air Sweeper. The new machine replaces the city's old sweeper, which suffered equipment failure in November 2013.

The new truck, billed as the most reliable and the most environmentally friendly truck on the market, was purchased for \$300,618.00 using Fund 132 Air Quality Improvement Funds and a grant from MSRC.

The Streets Division employees will spend some time getting hands on training and will begin operations citywide on May 23, 2016.

COMM



Stagecoach Days Committee made a donation to Banning Police Explorers for the purchase of uniforms. Pictured is Miss Stagecoach Days Jennifer Hall presenting a check to Banning Police Chief Alex Diaz.



The California Highway Patrol awarded Beaumont Police Detective Chris Walsh the 10851 award at the June 21 city council meeting. The 10851 award is given to officers who recover stolen vehicles. This year's award was for the period of May 2015-16, when Walsh recovered stolen vehicles resulting in eight arrests. The total value of the recovered vehicles was \$430,000.



City of Banning receives new street sweeper

The City of Banning Public Works Department received a special delivery May 10, 2016- a new Tymco 600CNG Regenerative Air Sweeper. The new machine replaces the city's old sweeper, a 2001 Tymco 600 with 58,928 miles and 12,242 engine hours. The sweeper suffered equipment failure in 2013 having exceeded its 12 year life expectancy.

The new truck, billed as the most reliable and the most environmentally friendly truck on the market, was purchased for \$300,618.00 using Fund 132 Air Quality Improvement Funds and a grant from the Mobile Source Air Pollution Review Committee.

The Streets Division employees spent some time getting hands on training and began operations citywide on May 23, 2016.

Beaumont Unified announces hires

BY JULIE FARREN
Record Gazette

The Beaumont Unified School District announced new hires and promotions during its June 21 school board meeting.

Michael Griffin, currently assistant principal at Mountain View Middle School, is the new principal at Brookside Elementary School. He joined the school district in 2004 and began as a substitute teacher. He also has worked as an elementary and middle school teacher and became an instructional coach with the district. In 2014, he became assistant principal at Mountain View Middle School.

Anthony Coronado will succeed Griffin as assistant principal at Mountain View Middle School. He was a teacher in the Colton Joint Unified School District and was a technology teacher in the Monrovia School District. He recently worked for the Indio school district and the Desert Sands Unified School District.

Cheryl Graham joins Beaumont as the district's special education coordinator. She previously worked for the Yucaipa-Calimesa school district as a special education teacher and was a program specialist with the Hemet



Beaumont Unified School District announced new hires and promotions during its June 21 school board meeting. Ebon Brown joins Beaumont as the district's special education coordinator. He recently worked for the Indio school district and the Desert Sands Unified School District.

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