

FINAL REPORT

ML06044

PURCHASE TWO CNG STREET SWEEPERS

CITY OF POMONA

March 13, 2008

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

ACKNOWLEDGEMENTS

This report was submitted in fulfillment of *ML06044* and *PURCHASE TWO CNG STREET SWEEPERS* by *CITY OF POMONA* under the partial sponsorship of the Mobile Source Air Pollution Reduction Review Committee (MSRC). Work was completed as of *March 13, 2008*.

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 AND WORK PERFORMED

The City of Pomona purchased two heavy-duty street sweepers equipped with dedicated compressed natural gas (CNG) engines. The project initiated from the City of Pomona's on-going goal of providing a quality City service and developing safe, clean, family oriented neighborhoods. The City of Pomona recognizes heavy-duty on-road motor vehicles which are operated by the City contribute to the general emissions of the local, regional, and global air quality. With this in mind, the City of Pomona has and will continue to put forth efforts to promote and implement the use of low-emitting on-road motor vehicle technologies. The purchase of two CNG regenerative air sweepers was primarily motivated by the poorly functioning and outdated street sweepers, which are operated daily. The CNG sweepers were found to be an excellent candidate for replacement. The sweepers are responsible for sweeping approximately 593 curb miles throughout the City on a bi-monthly schedule.

The City of Pomona, in collaboration with the City and County of San Francisco, received special pricing and a pre-assembled purchasing specification for the purchase of two CNG regenerative air sweepers. The City and County of San Francisco recently composed a particular specification bid package to create the most optimal and cost effective CNG regenerative air sweepers, and awarded the contract to a vendor that could produce the vehicle. The use of the City and County of San Francisco bid drastically reduced the lead time involved in creating, bidding, and implementing this project. The City of Pomona was able to

implement the project and remove the old diesel fueled street sweepers months ahead of schedule.

The street sweepers have been in operation within the Street Sweeping Program since April 2006. Between the two CNG regenerative air sweepers, approximately 26,000 curve miles have been covered within the City of Pomona. They only operate within the City of Pomona boundaries. The new sweeper units perform more efficiently and at a lower emitting level than the sweepers they replaced. The two CNG regenerative air sweepers were received in March 2006. The two replaced street sweepers were sent to auction immediately after receiving the new sweepers.

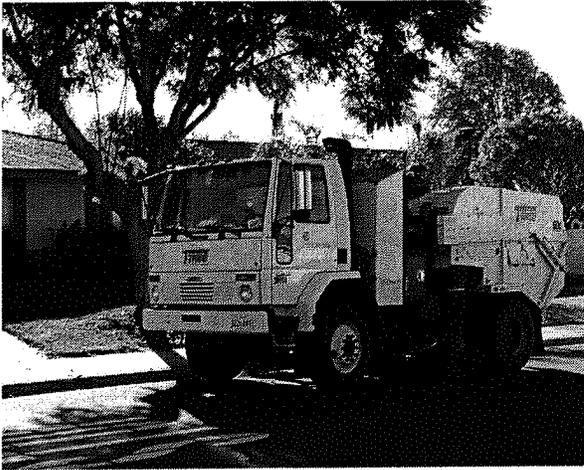
PROBLEMS ENCOUNTERED

Issues common to both units: Quite a large number of fault codes, check engine lights, and ignition problems. Operationally, the sweepers operate rather well; fuel consumption is in line with what was encountered with the diesel powered units. As far as debris pick-up, these sweepers are superior to the other units. Most of the issues were resolved by the manufacturer or their representatives under warranty.

EMISSIONS BENEFIT

There has been considerable emissions reduction because of the implementation of more modern low-emitting, on-road, motor vehicle technologies that are now available. The sweepers replaced were both 1986 Tymco Regenerative Air Sweepers, diesel fueled and had high mileage. The new sweepers are overall much faster and efficient, resulting in a reduction of emissions as well as PM10 fugitives.

PHOTOGRAPHS AND OUTREACH



THE PIPELINE

CITY OF POMONA - UTILITY SERVICES

Issue No. 14

July 2007

Comments from the Director - As you are all aware, City Manager, Doug Dunlap has announced his retirement, effective in early October. Doug has been instrumental in the success of several important Utility Services Department projects over the past several years. He has also been a strong advocate for excellence in customer care, throughout the City organization. In this regard, he has always demonstrated an affinity for the rank and file office and field employees who are the City's "ambassadors of good will" to the public.

The City is in the process of searching for and recruiting a new City Manager, to continue to take Pomona to the next level. With the leadership of the Mayor and Council, I am confident that they will find another excellent chief executive to lead the City Administration in implementing Council direction and policy.

Approval of the Commercial Solid Waste Transfer Station

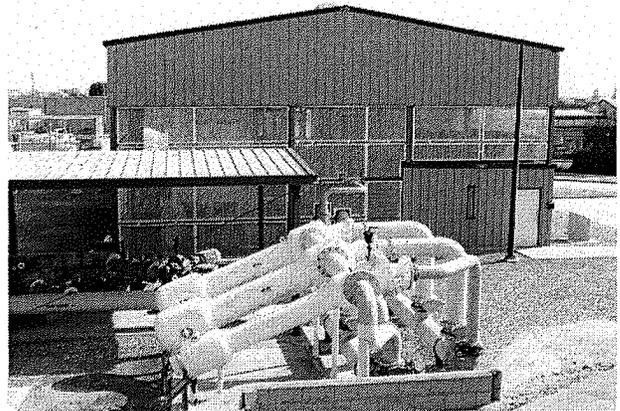
Transfer stations are used to ensure a less expensive method of transporting solid waste to distant landfills. With the closure of the Spadra Landfill and the impending closure of the Puente Hills Landfill, the City opened our interim transfer facility in 2004, and it has provided \$250,000 per year in savings for residential waste.

In June, a Commercial Transfer Station was approved for both residential and business waste. It will be built on First Street, near East End Avenue, and will be operational in the Fall of 2008. It will allow City crews to save an additional \$100,000 a year by restructuring routes and working a 4/10 schedule. This facility will generate almost \$600,000 per year for the General Fund.

Water and Sewer Bonds for Capital Improvement Projects: \$69.3 Million

Recently, the City marketed and sold \$55.8 million in new Water Bonds and \$13.5 million in new Sewer Bonds. These bond proceeds, which benefit from the most favorable bond rates in 30 years, will be used to complete many important capital improvement projects over the next five years, to assure safe and reliable water and sewer services, at reasonable rates. One of the many projects that will be completed with these bond funds is the upgrade and expansion of the City's Anion Exchange Water Treatment Plant. The funding will enable the City to take advantage of a \$1.7 million grant from the Metropolitan Water District of Southern California (MWD) for expansion of the facility's production.

Additionally, Well 37, at Harrison School, will be equipped with wellhead treatment and will provide over 1 million gallons of water per day, enough for approximately 2,200 families, as a result of this funding. The Harrison Well facility will also have an educational component and drought-tolerant garden, and will benefit from a \$2.5 million grant from MWD.



Resource Efficiency Program Enhancement

Throughout this year, the City has worked to expand our resource efficiency program. A large portion of the City's water use relates to landscape irrigation. We are currently working to insure that selected City parks will be retrofitted with water efficient, "weather-based irrigation controllers" and more efficient rotator sprinkler heads, using rebate funding available from the Metropolitan Water District of Southern California (MWD). Also, plans are underway for more water conservation based programs that will be offered and promoted to our water customers (e.g. water audits for both residential and commercial accounts), as well as increased outreach to the local area schools, to insure Pomona's youth are part of the water solution for the future.



Recycle Rex Challenge

The Recycle Rex Challenge is a Statewide program for K-6 grades, sponsored by the Department of Conservation- Division of Recycling. The challenge was to encourage students to collect and recycle as many pounds of aluminum and plastic beverage containers as possible in a 5-month period. This year, Amy Bennet-Rosado's kindergarten class from Lexington Elementary won that challenge by recycling 10,550 containers! For their great efforts, Recycle Rex provided the kids with backpacks, pencils, and coloring books, all made from recycled material.



E-Waste Accepted at Community Cleanup Events

FY 2006-07 is the first year that the City began accepting electronic waste at Community Cleanup events. Residents bring TVs, computers, microwave ovens, cell phones and other E-waste to convenient locations in their Council District, for free. Due to recent legislation that provided advance disposal fees for TVs and computer monitors, recyclers now pay the City for these materials, which help offset some of the costs.

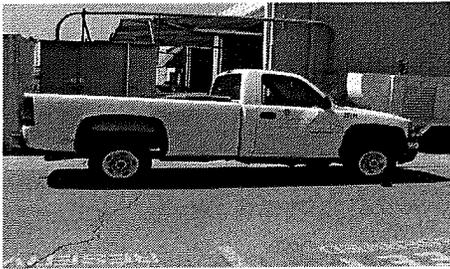
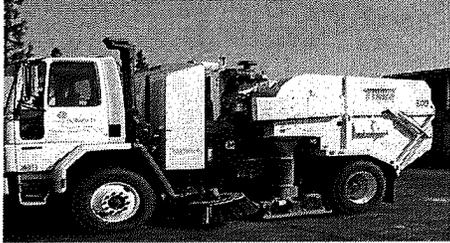
Recycling Awards Luncheon

The Second Annual Regional Business Recycling Awards Luncheon was held in Pomona, at the Avalon Restaurant at the Pomona Fairplex, on January 16, 2007. The prestigious awards were presented to the top recyclers in the San Gabriel Valley, and 10 Pomona businesses were honored. Mayor Norma Torres and Councilmember George Hunter represented the City in recognizing the following Pomona companies:

Blue Heron, Interstate Brands (Wonder Bread), Cal-Poly Pomona, Vertis, Pomona Fairplex, Halex Corporation, Royal Cabinets, Lanterman Developmental Center, and Pregis Corporation were recognized for innovative methods of diverting materials from their operations to beneficial use and away from landfills. Of special interest was the award to Ganesha High School, for establishing the Green Club, which ultimately grew to 75 student members. This group recycles materials for the benefit of the environment and their school.

Fleet Operations: Cleaner Air

Two Compressed Natural Gas (CNG) street sweepers and one CNG pickup truck were added to the City fleet, an environmentally sound solution for reducing air contaminants.



These acquisitions were aided by a \$60,000 grant from the Mobile Source Air Pollution Reduction Review Committee (MSRC).

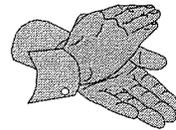
Also, diesel particulate matter devices were installed on City trash trucks, with a \$42,500 grant from the South Coast Air Quality Management District, to provide cleaner air.

Compressed Natural Gas (CNG) Fueling Station Grant

The Mobile Source Air Pollution Reduction Review Committee (MSRC), has granted the City over a quarter million dollars to help build a CNG Fueling Station. The City was awarded \$286,450, 50% of the project cost. The other half of this \$572,900 project is funded by South Coast Air Quality Management District (SCAQMD), though subvention funds granted to the City. Over the next several years, the City will continue to purchase additional medium and heavy duty vehicles, including pickup trucks, street sweepers, and refuse trucks, powered by CNG.



Employee Commendations - Congratulations to the following employees for a Job Well Done!!



Business Services Division - David Hamilton, Management Analyst, consistently performs at a high level handling a wide array of issues. Despite the heavily increased workload, David both willingly and professionally accomplished what was asked of him, meeting important deadlines.

Customer Service Section - Kudos to Steve Dowd and Beatriz Gonzalez, both Customer Service Representatives II, for receiving "Excellent Customer Care" cards.

Also, the Customer Service Section was praised by Jerry Christiansen, Project Superintendent, of Dreyfuss Construction, for their exceptional service in assisting him with construction meters.

Solid Waste Division - Martin Klein has been a Solid Waste Driver for 20 years and has established a reputation for being one of the most productive drivers in the Division. He frequently collects more areas with more tonnage than any of the other drivers. In addition, he has a perfect safety record and demonstrates excellent customer care.

Water/Wastewater Operations Division - Anthony Fedora, Wastewater Maintenance Technician II, is an employee that can be relied upon to step into any position or task. Changes in duties or work assignments are met with a positive attitude. He is very conscientious when it comes to the safety of fellow employees and the public, and he is also a great representative for the City in handling requests for service in a customer care oriented manner. He takes great pride in a job well done.

Equipment Maintenance Division - Clyde Helms joined the City in January of 2004 as a limited term Storekeeper, with over 20 years of automotive parts experience. In March of 2006, Clyde became a full time Storekeeper. He is very reliable, and his ability to interact with the Equipment Maintenance team in a positive, amicable manner is exceptional.

Since January 2007

EMPLOYEE HIGHLIGHTS

New Hires

Leandro Cervantes, Solid Waste Driver
Earl Doyle, Water Utility Worker I
Tony Giron, Water Utility Worker I
Randall Miller, Equipment Mechanic
Steven Montenegro, Solid Waste Driver
Cesar Muniz, Water Utility Worker I
David Pereyra, Water Utility Worker I
Robert Valdepena, Water Utility Worker I

Promotions

Patrick Bolander, Water Operations Crew Chief
Gabe Chavez, Wastewater Maintenance Tech III
Ruben Espinoza, Equipment Mechanic
John Lopez, Wastewater Maintenance Crew Chief
Gary Matthews, Water Distribution Supervisor
Steve Paz, Water Operations Crew Chief
Christina Sluss, Management Analyst

Retirees

Marcia Feller, 20 years, Sr. Cust. Svc. Rep.
Kenneth Hoover, 37 years, Heavy Equip. Mechanic
Michael Radaich, 30 years, Solid Waste Driver
James Story, 27 years, Senior Storekeeper

SUMMARY AND CONCLUSIONS

In summary, the objective to purchase and successfully replace and implement two new CNG regenerative air sweepers was completed. The two CNG regenerative air sweepers were received in March 2006. The replaced street sweepers were sent to auction immediately after receiving the new sweepers. The street sweepers have been in operation within the Street Sweeping Program since April 2006. Combined the CNG regenerative air sweepers have swept approximately 26,000 curve miles within the City of Pomona. The sweepers only operate within the City of Pomona boundaries.

A considerable emissions reduction has been achieved because of the implementation of modern, low-emitting, on-road motor vehicle technologies that are available in the new sweeper units. The new sweepers are overall much faster and perform more efficiently, at a lower emitting level, than the sweepers they replaced.

This is a great project to replicate especially with these types of vehicles, which are in operation continuously throughout the City. Taking into consideration the high cost of these types of specialty vehicles, this would be a good program to conduct if an agency has the available funding to commit to such an endeavor. For future replication of this project, it would help to increase the MSRC funding portion to off-set the rising cost of this type of equipment.