FINAL REPORT CONTRACT

ML 12090

CITY OF PALM SPRINGS

FINAL REPORT

MARCH 2017

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

MSRC GRANT TO FUND:

ELECTRIC VEHICLE PROGRAMS

This report was submitted in fulfillment of Electric Vehicle Parking and Education Program by City of Palm Springs under the partial sponsorship of the Mobile Source Air Pollution Reduction Review Committee (MSRC). Work was completed as of March 2017

Project Description & Work Performed: The City of Palm Springs utilized grant funds and money from the Sustainability Fund as a match to create new electric vehicle parking policies, increase electric vehicle ownership and investment, reduce vehicle emissions, and increase parking availability throughout the community. The City's Sustainability department spearheaded the program. The program included public outreach campaigns, events, and safety demonstrations.

The entire project included several elements.

- Electric Vehicle Parking and Infrastructure
- Public Outreach Campaigns
- Education Events
- Maps and Signage
- Employee Commute Engagement

Some of the projects related to the program include partnerships with local agencies that were held at least four times during the grant period. During the grant period there were several ribbon cuttings, electric vehicle shows and the City participated with local agencies on emissions reduction education.

EV Infrastructure: During the planning phase to incorporate electric vehicle parking throughout the City, staff worked with several agencies and many businesses to locate the appropriate locations and signs. The local SunLine bus transportation system also worked with the City to suport electric vehicle space located near bus stops. Additionally, the City removed several parking spaces that were replaced with electric vehicle stations. The City also worked to support Electric vehicle Friendly Business areas as part of the outreach program. As a result many of the businesses that participated also asked to be included in electric vehicle events. Over 40 electric vehicle stations have been installed in public spaces including City parks and facilities as well as on private property. This includes low income areas, the Desert AIDS project, the local movie theater and downtown parking areas.

The design of the signs was made easier with assistance of the manufacturer as they had standard language.

Construction and Operations: The construction of the electric vehicle stations parking spaces and the installation of the signs were relatively simple. We did have some issues with thermoplastic and decided against placing the green striping or blue decals at all of the parking spaces. It was easier to just place signage. The City utilized in house as well as contracted installers to complete the work. City facilities and fleet worked together to use thermoplastic for marking the designated electric vehicle areas.

Ordering and purchasing: Often electric vehicle stations were ordered as locations were secured and commitments were made. However, initially a large amount of stations were placed due to co funding from the California Legacy charging program. At that time there was no funding for signage and no

policy was set in place to enforce parking. The implementation took approximately 9 months to get most of the signs into the community.

Problems Encountered: The biggest problems encountered were usually related to a lack of staff and funding. When there was no funding it was often difficult to place new stations and to decide which elements should be a priority for the project. Maps were of course important but it would have been great to do even more public outreach. Most of the maps were placed on line. As the programs grew and time passed the sustainability department also lost funding to add more controls on the satations. A solution would be to create a regional electric vehicle charging program throughout the Coachella Valley

Emissions Benefits:

The benefits proposed from the project were increased health of constituents, increase in electric vehicles used, and addition of EV's to the fleet due to added infrastructure. We currently have four parking vehicles, 2 permitting and one fire. Benefits achieved from the project include all of the proposed benefits.

The outcomes regarding emissions reduced can only be estimated. However, at times the City recorded an average commitment of 35 miles per day per vehicle that were EV miles. That means that if all 40 stations were used it would be about 1400 low or no emission VMT.

Social and Cultural Benefits: Some of the inherent benefits of the program include increased health of the community as well as increased confidence in the ability to charge their electric vehicle. In addition the added charging stations create more neighborhood awareness and eyes on the street. People tend to recognize regular commuters, which is also an added safety benefit. Because they also may notice neighborhood features they are more likely to report infrastructure problems, lighting issues and even broken irrigation. Another benefit that some people report is feeling confident in their EV and having reduced range anxiety. We have noticed that many more people are able to find their ways to important safe electric vehicle routes due to our map outreach program. The City has distributed over 100 electric vehicle maps.

Photographs & Outreach: The City hosted many outreach events including neighborhood picnics and our signature electric vehicle ribbon cutting event for our new stations at City Hall. Major events were Electric vehicle education Day and electric vehicle map giveaways.

http://www.kesq.com/news/some-electric-vehicles-not-working-in-extreme-heat_20160920062043331/87462310

http://theevchargelocator.com/EVcharge-Locations-map.html/city=Palm%20Springs&state=CA

http://www.palmspringslife.com/electric-car-owners-can-plug-in-at-parker-palm-springs/

Summary and Conclusions: Major result of the project was outreach to the public using signage, press releases and events. We have seen increased electric vehicle use in the City as evidenced by the use of the stations, use of all electric vehicle stations and attendance at education events.

Disclaimer – The following statement is to appear near the front of the report: "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."

Acknowledgements

The City of Palm Springs acknowledges the work of staff and volunteers that made the project possible. This includes:

Grant Reporting Preparation: Succeeding Sustainably Inc.,

Former Sustainability Manager, Michele Mician

Former Assistant, Arwel Bermudo

Assistant Daniel Degarmo

Support Staff, Gary Calhoun

Stacie Schafer, Facilities Manager

City of Palm Springs Sustainability Commission Chair Joe Jackson and Vice Chair Grant Wilson

Volunteers: Brett Klein, Vic Yepello, Nancy Ferguson, and the entire Non-Motorized Transportation Committee

CVAG and Clean Cities Coachella Valley


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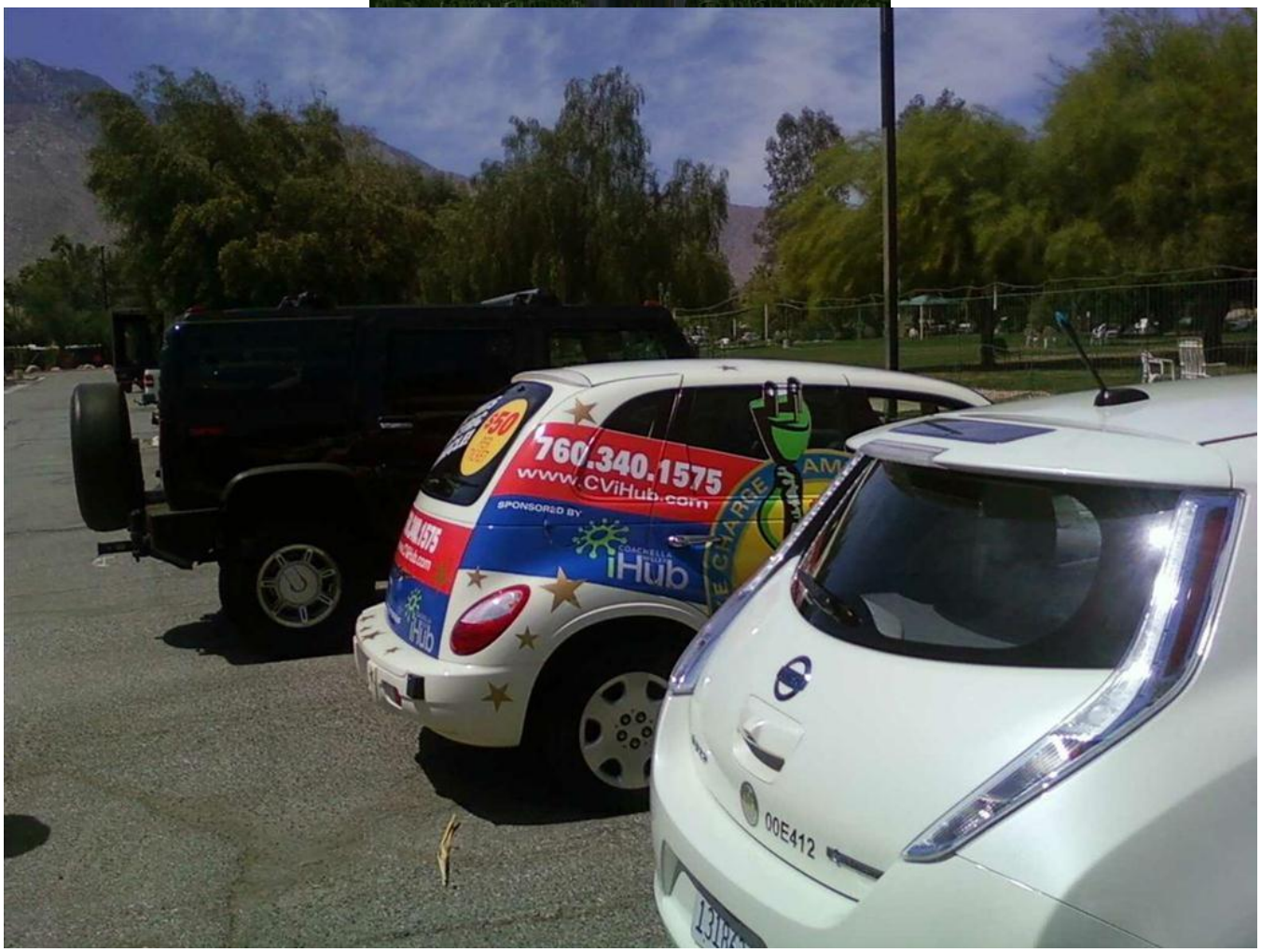
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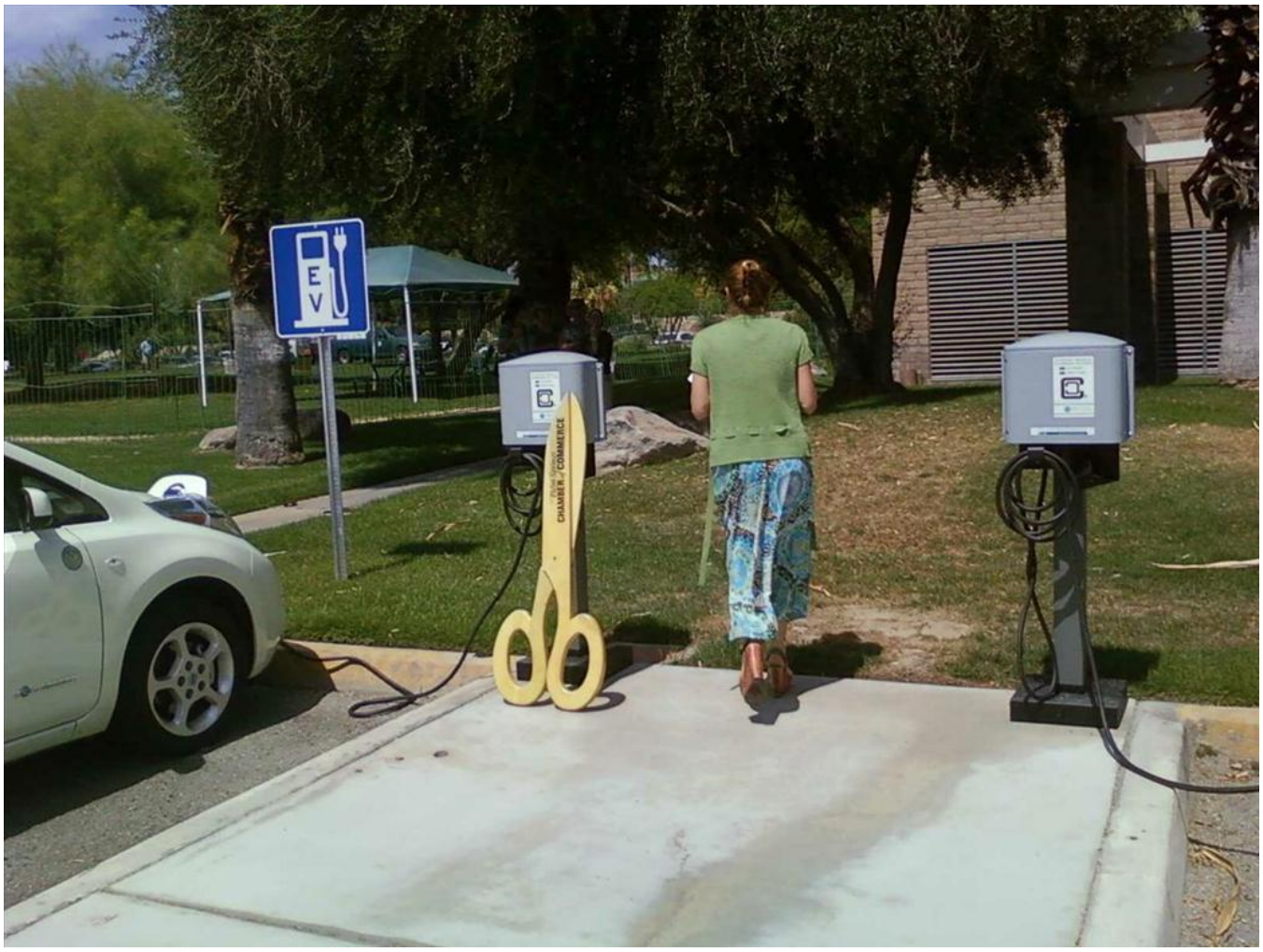
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