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**Final Report**  
**City of Redondo Beach**  
**City Electric Vehicle Charging Station**  
**Contract Number ML18098B**  
**February 15, 2022**

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

### **Acknowledgements**

The Capital Improvement Project to add public use Electric Vehicle Charging Stations (EVCS) in the City of Redondo Beach was a collaborative effort between the Public Works Department along with ChargePoint and Amtek Construction, who was selected as the contractor for the project.

This report was submitted in fulfillment of ML 18098B and City Electric Vehicle Charging Stations by the City of Redondo Beach under the partial sponsorship of the Mobile Source Air Pollution Reduction Review Committee (MSRC). Work was completed as of December 20, 2021.

### **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 (South Coast AQMD). 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.

## **Summary and Conclusions**

### **1. Scope, purpose and background of the project.**

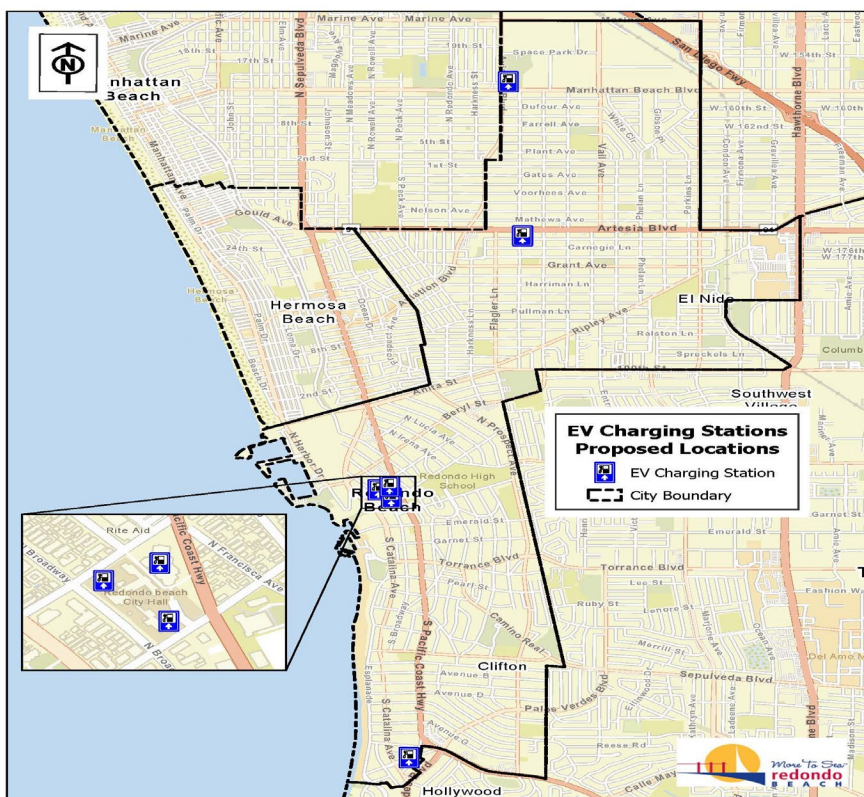
The objective of the project was to construct and install seven dual port level II electric vehicle charging stations (EVCS), one dual port DC fast charger, and one single port level II EVCS. All except the single port level II, which is private use, are available for public use. Prior to this project the City did not have any publicly available EVCS for the public to utilize. Given the State's goal of 250,000 charging stations by 2025 and the increase in Electric Vehicle's (EV) on the road, the City Council directed staff to begin the efforts in adding EVCS throughout the City.

The City Council approved the charging site locations that include one private use site (City Hall Parking Lot), and five public use sites (Riviera Village Triangle Lot, Main Library Parking Structure, Performing Arts Center, North Branch Library Parking Lot, and Police Department Front Parking Lot). Initially one station was going to be installed at the Community Services Department Building, however, given that it is a leased property the City changed course and installed it across the street at the North Branch Library.

Given the clear push legislatively and by car manufacturers as well towards electric vehicles, the City sees the value in contributing towards these efforts. As electric vehicle technology improves and the costs come down, more and more people will make the switch from conventional internal combustion engines (ICE) to electric, or other alternative fuels. In order to facilitate this movement, the prevalence and access to electric vehicle infrastructure must increase to keep pace with the increased demand of additional EVs on the road.

Furthermore, the efforts to add and then continue to grow the City's EVCS footprint will ultimately contribute to reducing greenhouse gas emissions. This project is a step in the right direction to reduce "range anxiety" which is a barrier to EV ownership. As community members begin to see more EVCS throughout the City, they will be more likely to consider and purchase an EV in the future. Therefore, this project supports the State's goals associated with greenhouse gas reduction by making EV ownership more accessible with added charging infrastructure.

## Project Locations



## Emissions Benefits

According to the Alternative Fuels Data Center, US Department of Energy, the annual average CO<sub>2</sub> emissions of an Electric Vehicle (EV) is five times less than that of a gasoline vehicle, when taking electricity source into account. The former equates to an estimated 9,000 pounds of CO<sub>2</sub> equivalent more than a gasoline fueled vehicle emits compared to an EV annually in California. Furthermore, EVs emit zero emissions when driven. Therefore, the ability to increase the EVCS footprint throughout the City assists in the efforts to clean the air for the community and ultimately support efforts against climate change. The City will be keeping track of usage of the stations and ultimately have more concrete data on the amount of greenhouse gases saved from being emitted.

2. Use clear, concise statements to state any recommended future actions and further study that may be required. **The City is looking forward to future grant opportunities that the City could leverage to continue the EVCS footprint throughout the City. The City Council has given clear direction to continue its efforts in adding more EVCS throughout the City. Staff will be looking at both Federal and State level funding sources to continue those efforts/**
3. To document the completed project, a picture or pictures of vehicles and/or infrastructure showing MSRC logo/decal must be included in the report. This section shall also include copies of any media/outreach materials and/or news clippings generated by the project. **See below**

## Main Library





## Police Department Front Parking Lot



## City Hall Carport (private use)



## North Branch Library





## Performing Arts Center





## Riviera Village Triangle Lot





they earned a playoff spot or not. "Both losses were heartbreakers," Coach John Lapham said. "Now, even with a final record of 18-6, we may not get in the playoffs."

Regardless of whether they make the playoffs or not, Lapham said it is a season he will always remember if only because of the four seniors - Winslow Smith, Cara Susilo, Bella Blum and Hannah Gedion - who gave all they had to make the season a success.

"After that Redondo loss I told them how proud I was of how hard they worked all year," Lapham said. "But I had to tell them I don't know if they will have a chance to put the Costa uniform on again."

## USC Football: Here Comes Caleb

The great Chinese military strategist Sun Tzu said all battles are won or lost before they are ever fought.

Next fall, when USC is dominating the PAC-12 football wars, and pulling out close victory after close victory - and pulverizing UCLA - Trojan fans

should remember that piece of ancient wisdom.

They should thank their lucky stars that new coach Lincoln Riley has imported his star quarterback from Oklahoma just two months after he shocked the college football world by signing on to revive USC's once elite football program - and committed to making it elite once again.

A lot of battles had already been won in advance of Tuesday afternoon when Caleb Williams announced he is transferring to USC. Williams was the single best player available in the NCAA transfer portal this off-season and now he will be calling signals for the Trojans. Vegas, where you can place a bet on practically anything to do with sports, already has him in the top three, odds-on picks for the Heisman Trophy.

Consider the sophomore transfer's incredible record. This is not some high school hot-shot who may or may not be able to translate his skills to the next level. This guy has the potential to be a worthy successor to Carson Palmer and

Manhattan Beach's own Matt Leinart - both Heisman winners - as well as USC's second tier of great quarterbacks like Mark Sanchez, Matt Barkley and Sam Darnold.

Williams came to Oklahoma last fall as a 5-star recruit, but was slated to be the backup to the pre-season Heisman favorite, a guy with the wonderful quarterback's name of Spencer Rattler. You can just imagine the fun the local sports writers had with puns on his name.

But something went wrong with the snake thrower, and during Oklahoma's annual Red River rivalry game with Texas the Sooners fell behind by 21 points. Riley, ever the pragmatist, yanked Rattler and inserted his highly-hyped-but-untested freshman.

The result: an epic comeback victory that catapulted Williams into the Sooners' starting job. From there he went on to complete 65 percent of his passes for nearly 2,000 yards, 21 touchdowns, and only four interceptions.

As a bonus, he's so fast and shifty that he also rushed 79 times for 442 yards,

and an additional six touchdowns.

He's so good that already USC's two incumbent quarterbacks who split the job last season - Kedon Slovis and heir-apparent Jaxson Dart - have left for greener pastures where they will have a chance of claiming the starting QB slot. Slovis decamped to Pittsburgh and Dart recently enrolled at Ole Miss.

There's a good reason why Williams waited two months before following his coach to LA: he wanted to see if Riley had the juice to attract other high-end transfers who could make his job easier.

Riley delivered, big-time. In just two months he signed as transfers Mario Williams, who was his top receiver at Oklahoma, Colorado wide receiver Brenden Rice, Stanford running back Austin Jones, and Oregon running back Travis Dye - all proven collegiate stars.

But Williams is the true superstar who ensures that a lot of the battles USC will fight next fall have already been won.

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## The City of Redondo Beach installs nine Electric Vehicle Charging Stations



The Project was funded in part by the Mobile Source Air Pollution Reduction Review Committee (MSRC).

As part of the City's ongoing "green efforts" in partnership with the MSRC, the City invested in adding electric vehicle charging stations including a DC Fast Charger. The stations add to the much needed infrastructure to support the State of California's goal of 250,000 charging stations by 2025.



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### LOCATIONS:

- Performing Arts Center Parking Lot
- Main Library Parking Garage
- North Branch Library
- Police Department Parking Lot
- Riviera Village Triangle Parking Lot

