

# **Contract No.: ML14071**

**Title: Electronic Charging Station Purchase  
and Installation**

**-- Final Report --**

## **City of Manhattan Beach**

June 30, 2017



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

## Acknowledgements

The City would like to extend its appreciation to the following City Staff and organizations who contributed to the success of this project:

- ❖ Sona Coffee, Environmental Programs Manager, City of Manhattan Beach
- ❖ Sean Roberts, Facilities Supervisor, City of Manhattan Beach
- ❖ Facilities Maintenance Division Staff (Ken Tonkovich, Garret Stephen, Brett Norris, Rudy Hurtado), City of Manhattan Beach
- ❖ CLE (Centerline Electric) for assistance with installation
- ❖ Keith Darling, Maintenance Manager, City of Manhattan Beach
- ❖ Gwen Eng, Purchasing Manager, City of Manhattan Beach
- ❖ Tikneshea Hicks, Purchasing Clerk, City of Manhattan Beach
- ❖ Libby Bretthauer-Long, Finance Analyst, City of Manhattan Beach
- ❖ Anna Luke-Jones, Sr. Management Analyst, City of Manhattan Beach
- ❖ Gabriela Navar, MSRC Contracts Assistant, AQMD
- ❖ Leah Alfaro, MSRC Contracts Assistant, AQMD
- ❖ Len Fein, Director, Liberty Plug-Ins., Inc. (ATVLA, Inc.)
- ❖ Chris Outwater, CEO, Liberty Plug-Ins., Inc.

## 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

Project Description: The City of Manhattan Beach purchased and installed EV charging stations at two new locations, 2 stations in Lot M (Metlox Plaza) and 2 stations in Lot 3 (300 12<sup>th</sup> St.) across the street from Metlox Plaza. These two parking lots offer the most available parking to the more than 1 million visitors Manhattan Beach receives each year. Providing these additional charging stations in new locations enables more EV drivers to commute through the City, with the goal of reducing the air pollution and emissions from traditionally fueled vehicles. In addition, this grant request included the installation of monitoring stations so the City can better track the usage at each EV charging location, and those units have been installed.

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Work Performed: Prep and installation took approximately one week. To prep the area, conduit was run from the breaker panel to the EV charging locations. Rough electrical work was required including the installation of a safety switch to meet code compliance (electrical performed by CLE and City Staff). No product design was involved because the units were purchased through retail means. No additional support needs were required for the existing concrete walls where the units were installed.

Next, the units were each mounted on the existing concrete walls using masonry wedge anchors and other fasteners. Once the units were installed, they were ready for use the same day. Lastly, signage was updated to identify EV-only parking spaces.

**Problems Encountered**

Problem	Solution
Vendor provided arms-length assistance during the installation period.	Staff spent more time studying operations manuals than if vendor had assisted with installation.
The monitoring equipment vendor underestimated the demand of the stations when sizing the monitoring equipment. It should have been larger to accommodate greater usage.	For future units, make sure to specify a greater capacity within the monitoring equipment.

**Emissions Benefits**

Per Leah Alfaro, this section is not required as a vehicle was not purchased. No specific emissions benefits were required with the proposal (baseline), therefore a comparison cannot be made to current usage of the EV charging stations.

## Photographs & Outreach

The two locations installations occurred, Lot 3 and Lot M, are epicenters of the Downtown and provide the most available parking spaces to those visiting the beach and Downtown Manhattan Beach. Photos of the area are included so that it's understood how important these installations are to such a vital parking area.

The below aerial photo is looking east to Downtown Manhattan Beach. The main street in the center is Manhattan Beach Blvd. The two locations where EV chargers were installed using these grant funds are located three blocks up, on the left (basically in the center of this photo).

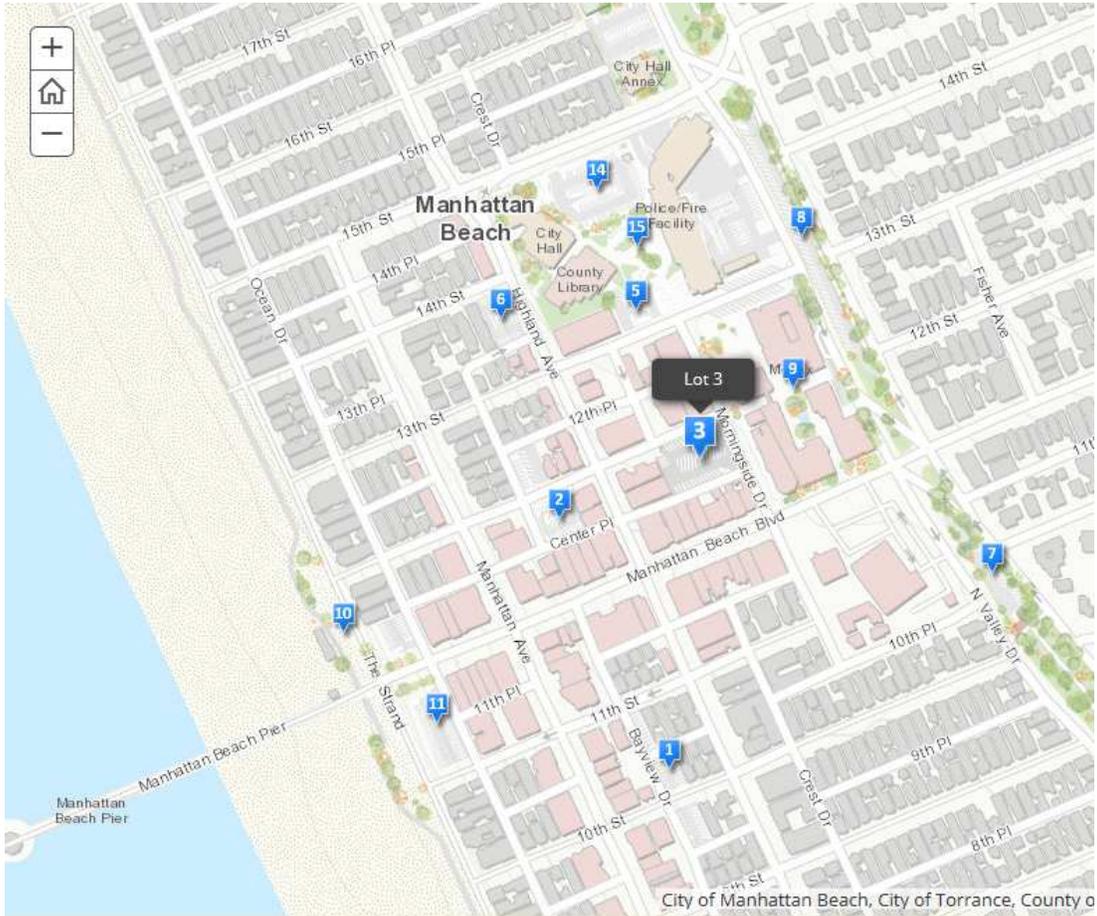


Manhattan Beach Pier, 3 blocks from both of the locations where the EV chargers were installed.



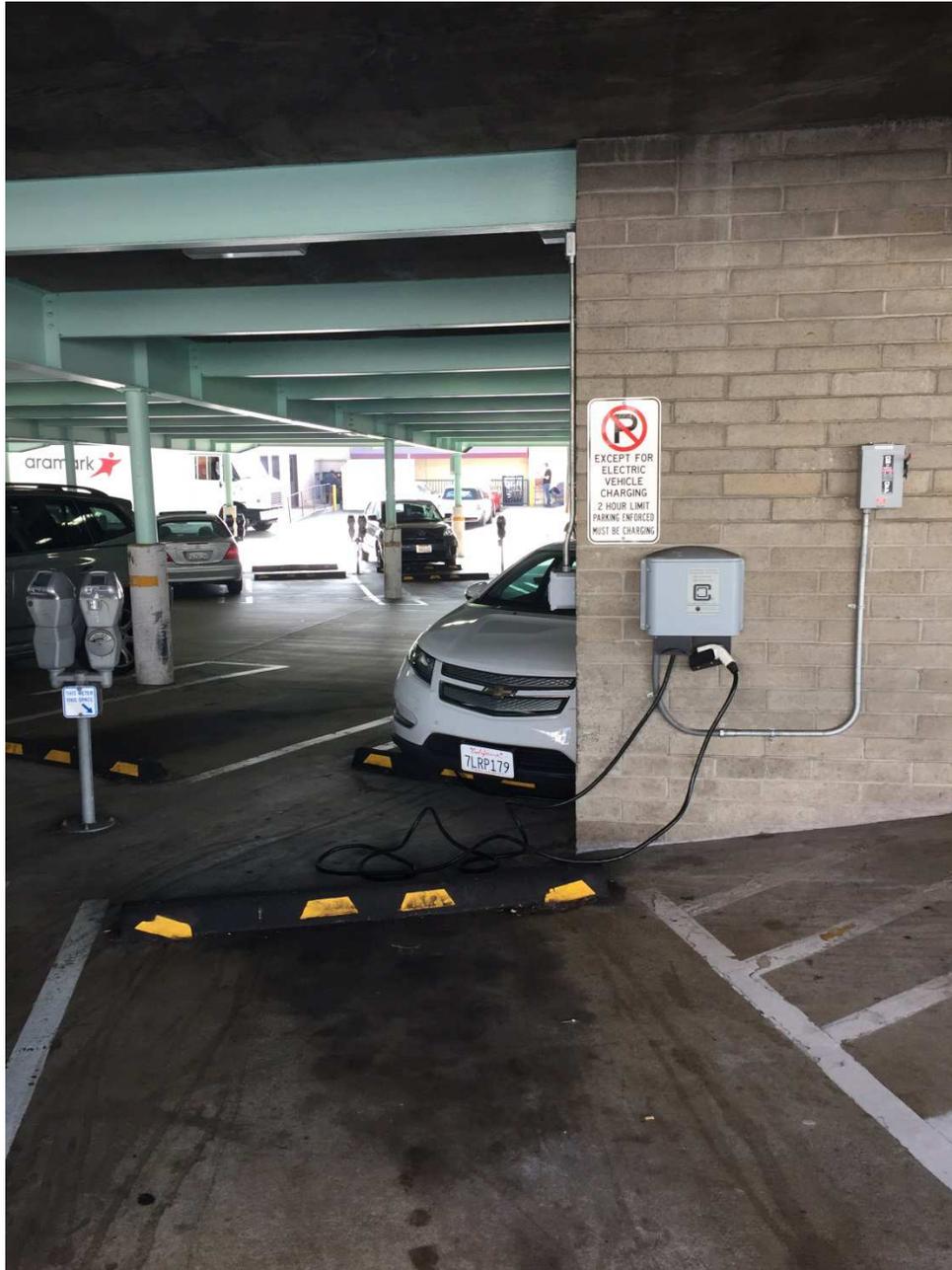
**Lot 3 Parking Structure (300 12th St.)**

A 3-story parking structure located at 300 12<sup>th</sup> St., 3 blocks from the Pacific Ocean. The two EV chargers were installed on the first floor of the structure.



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Lot #3 charging station (number 1 of 2)





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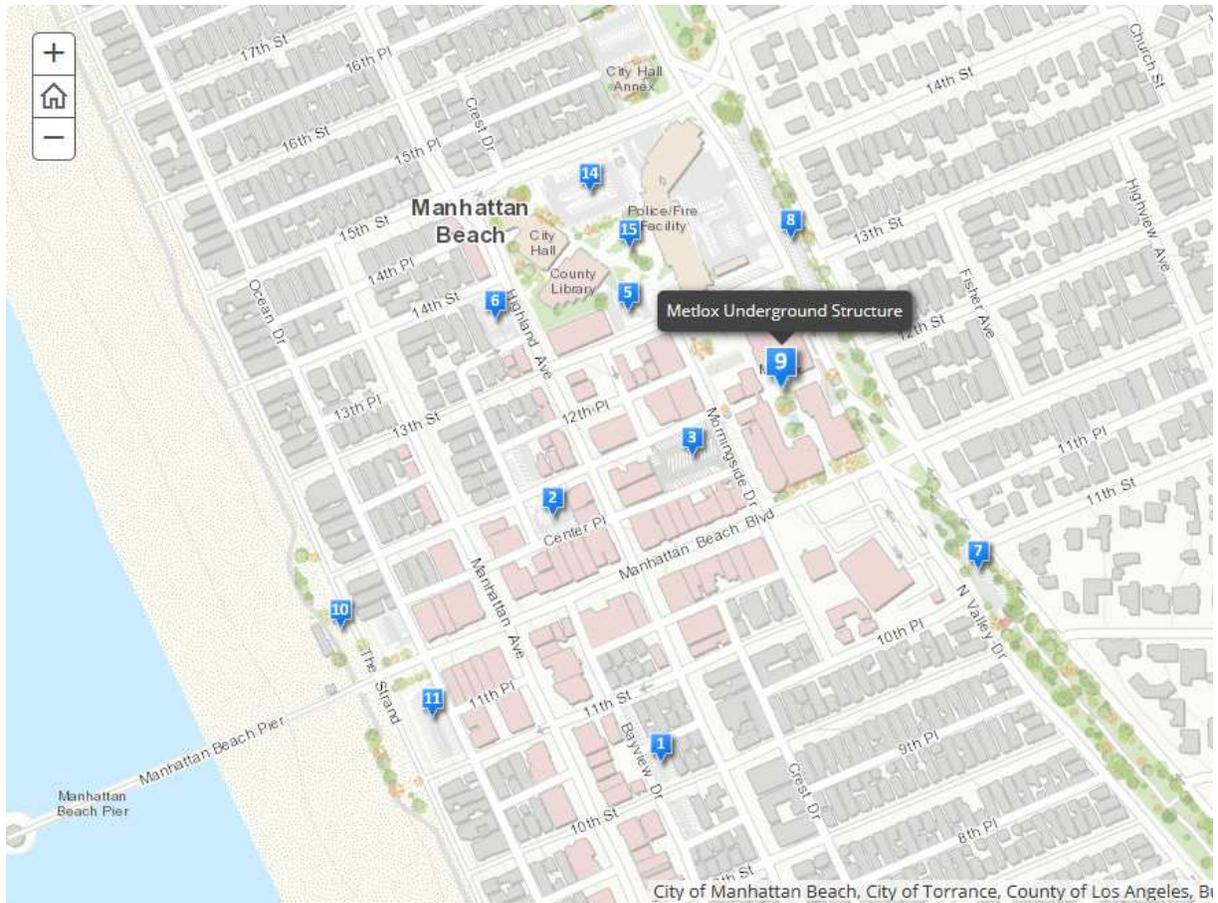
Lot #3 charging station (number 2 of 2)



**Metlox Plaza (451 Manhattan Beach Blvd.)**

2 EV charging stations were installed in the underground parking structure in Lot M (Metlox)

The pictures below are about/of Metlox Plaza, which is located in Downtown Manhattan Beach, 3 blocks from the Pacific Ocean. The Plaza is on the former grounds of the iconic Metlox Pottery Company. The current plaza includes higher-end retail, restaurants, and also includes the Shade Hotel, a boutique hotel. The northern edge of the Plaza is the location of the City’s weekly Farmer’s Market.







Shade Hotel in Metlox Plaza:





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Lot M (Metlox) charging stations (numbers 1 and 2 of 2) Side by Side



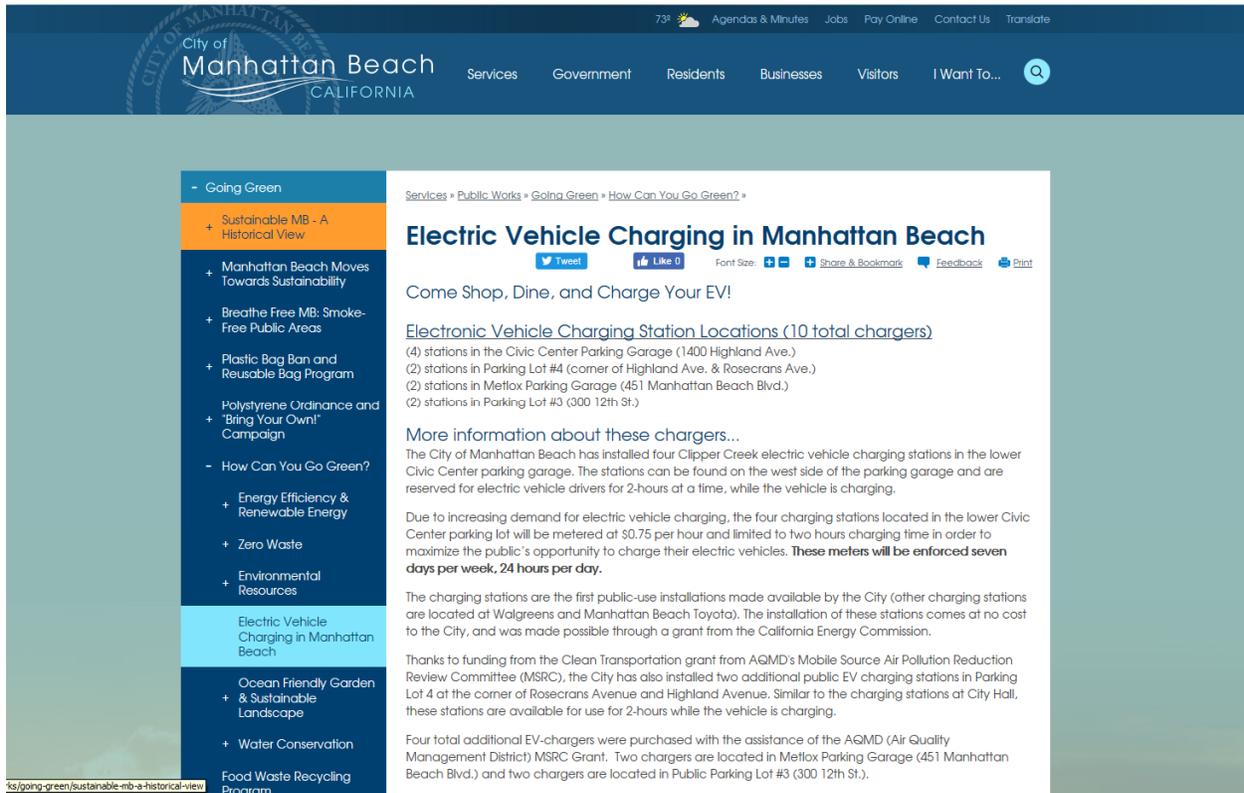


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Outreach

The City of Manhattan Beach promoted the new EV charging locations on its website at [www.citymb.info](http://www.citymb.info) and the Winter 2017 issue of “Manhappenings” which is the City’s event and activity catalogue that is provided to all residents in the City.

City Website: <http://www.citymb.info/city-services/going-green/electric-vehicle-charging-in-manhattan-beach>



Four total additional EV-chargers were purchased with the assistance of the AQMD (Air Quality Management District) MSRC Grant. Two chargers are located in Metlox Parking Garage (451 Manhattan Beach Blvd.) and two chargers are located in Public Parking Lot #3 (300 12th St.).

Winter 2017 Manhappenings Booklet, distributed citywide: <http://www.citymb.info/city-services/going-green/electric-vehicle-charging-in-manhattan-beach>

The EV charging station news was included on page 5 of the 48 book released in Winter 2017.

## **EV CHARGING STATIONS UPDATE**

Thanks to funding from the Clean Transportation grant from South Coast Air Quality Management District's Mobile Source Air Pollution Reduction Review Committee (MSRC), the City has been able to expand Electric Vehicle charging stations to two parking lots – the Metlox garage and Lot 3 – in addition to the existing Electric Vehicle charging stations in the lower Civic Center parking lot and Lot 4. All stations are metered at \$0.75 per hour and limited to two hours charging time in order to maximize the public's opportunity to charge their electric vehicles. Meters are enforced 7 days per week, 24 hours per day.



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# MB NEWS

## 2016-17 REFUSE & STREET SWEEPING HOLIDAY SCHEDULE

- The following 6 holidays are observed by Waste Management (WM) and Athens Services.
- Memorial Day
  - Independence Day
  - Labor Day
  - Thanksgiving Day
  - Christmas Day
  - New Year's Day

Refuse collection (WM) will occur one-day late following an observed holiday. If the observed holiday falls on a Saturday or Sunday, no changes will be made to the residential collection schedule. Street Sweeping (Athens) will not occur on the above-listed holidays and will not be made up.

## HOLIDAY TREE & LIGHT RECYCLING

Between December 26, 2016 - January 14, 2017, single and multi-family residences may place holiday trees next to their curbs/bins by 7:00 AM on collection day for free pick-up and recycling. Trees must be no taller than 7'6" and no wider than 7-foot sections. Please remove all lights, decorations, tinsel, ornaments, and metal stands. Potted trees will be collected but cannot be recycled.

Need to recycle holiday lights? Contact At Your Door Manhattan Waste Collection for a doorstep pick-up of household hazardous waste, including

unwired holiday lights (which are e-waste). Call (800) 449-7581 Monday through Friday, from 9:00 AM - 3:00 PM, to schedule a pick-up.

## THE BEST GIFT FOR PLANET EARTH

The holiday season is a special time. The best gift you can give Planet Earth is protection of natural resources. Incorporate practices to reduce waste and reuse materials. Here are some tips to get you started:

- Plan meals carefully. The grocery lists and avoid impulse buys.
- Avoid "individual" packs, purchase bulk foods and buy groves, oils, and spices from bulk bins.
- Use reusable containers to send leftovers home with family.
- Recycle the food waste you do have. The curbside program is easy! Put all food scraps into a bag. Tie it off. Place in your green waste cart. \*Valid!
- Utilize reusable bags, tote bags, or cosmetic bags instead of gift bags, wrapping and tissue paper - the bag becomes part of the gift!
- Online shopping! Take packing peanuts to the local UPS or shipping store for reuse. Decorate shipping boxes and reuse.
- Donate clothes, toys, household goods and electronics in working condition to a local donation center. Receiving a gift to the house? Donate household items from lighting to a vanity to the Habitat for Humanity ReStore in Torrance.

Ask your family for additional ideas and be kind to the planet this holiday season.

## AWARDS

The City has also received statewide recognition for its efforts in environmental sustainability and its innovative Older Adults program. This year, we were honored to be one of eight cities to receive a 2016 Reuse Award from the Institute for Local Government and the Statewide Energy Efficiency Collaborative for the City's comprehensive approach to climate change. Manhattan Beach strives to be a leader in its sustainability practices, whether it's prohibiting smoking in public places, addressing food waste or reducing greenhouse gas emissions. In addition, the League of California Cities presented the City with the prestigious 2016 Helen Putnam Award for Excellence in recognition of its recent multi-generational, collaborative initiative called Connected. This program, offered through our Parks and Recreation Department's Older Adults Division, brought together volunteers, local students and staff around the growing challenge of technology and older adults. This multi-generational team developed a creative approach to connecting older adults with technology tools and the resources to learn how they work. These efforts have built new relationships and kept our older adult community informed and connected to their communities.

Stay connected and learn about news like this by following us on Facebook and Twitter @citymb!



## EV CHARGING STATIONS UPDATE

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## MB CARES

Our City has a lot to be proud of. We strive to create an accessible, safe and responsive community for our residents, businesses and visitors. Recently, our staff has created a philanthropic group called MB CARES, dedicated to connecting City employees through volunteering.

The MB CARES team has held a beach clean-up, worked in the Skunkers Pay-to-Park Friendship Walk (and raised \$700), collected food for those in need, sent holiday cards to deployed military troops and held a holiday toy drive for Toys for Tots. In addition, all employees are encouraged to stay on the lookout as our MB CARES team continues to help this community thrive!

## MB CARES



## RIDE BEACH CITIES TRANSIT

Ride BCT Line 109 with local stops in Manhattan Beach at The Pier, Manhattan Beach Public Library, Civic Center, North Manhattan Beach and Manhattan Village Mall. Stay connected with Beach Cities Transit by following them on Twitter for timetables updates and more. @beachcitiesbct #ridebct



## CITY OFFICIALS

- |                 |                |
|-----------------|----------------|
| Jeffrey Ericson | Mayor          |
| David Leary     | Mayor Pro-Tem  |
| Amy Howarth     | Councilmember  |
| Wynne Powell    | Councilmember  |
| Mark Burton     | Councilmember  |
| Tan Litagova    | City Treasurer |

## ADMINISTRATIVE OFFICIALS

- |               |                        |
|---------------|------------------------|
| Mark Davis    | City Manager           |
| Nicole Naylor | Assistant City Manager |
| Lisa Santos   | City Clerk             |

City Council meets the 1<sup>st</sup> and 3<sup>rd</sup> Tuesday at City Hall, 6:00 PM



## FIRST AID, CPR/AED TRAINING

2-year certificate offered by MB CERT and Beach Cities Health District

Dates: Saturdays in 2017: 2/4, 4/1, 6/3, 8/5, 10/14, and 12/2

Times: 8:00 AM to 3:00 PM

Limited to 30 participants each class. Please arrive at least 20 minutes before to get settled in.

Class will start on time.

Location: Lady's Community Center, 1691 N. Valley Drive, Manhattan Beach 90256, Just North of Tree Station #1.

Parking: Parking passes will be made available.

To RSVP: You must pre-register to be assigned a seat in class. Please email Jennie

(jennem@mbgwa.com) with your full name, phone, email, and home address.

Cost: There is no charge to residents and employees of Manhattan Beach, Hermosa Beach and Redondo Beach. Beach Cities Health District has partnered with us so we may provide you with this life-saving training. The fee for those living and working outside the Beach Cities is \$55. Your certificate will be emailed to you. Make sure you have the correct email address.

## **Summary & Conclusions**

The City of Manhattan Beach has successfully utilized the MSRC grant funds to purchase and install 4 new EV charging Stations in Manhattan Beach. This project has allowed EV drivers an opportunity to recharge in two of the busiest parking areas in the city – Lot 3 (3 story parking structure) and Lot M (underground parking at our Metlox Plaza). Both of these lots provide the main parking for those visiting Downtown Manhattan Beach and the Manhattan Beach Pier, the Strand, main Manhattan Beach access to the LA County Bike Path, and the Pacific Ocean.

Two EV charging stations were installed in Lot 3, and two EV charging stations were installed in Lot M.

For future EV installations, the City will likely outsource charging station installation to the EV charger/monitor vendors for ease of transition.

The City of Manhattan Beach staff is truly grateful for this grant opportunity as it has expanded EV capabilities for the community we serve.