



City of Arts & Innovation

City Council Memorandum

TO: HONORABLE MAYOR AND CITY COUNCIL **DATE: OCTOBER 23, 2018**

FROM: PUBLIC WORKS DEPARTMENT **WARDS: ALL**

SUBJECT: CITY OF RIVERSIDE TRASH CAPTURE IMPLEMENTATION PLAN TO COMPLY WITH THE STATE TRASH AMENDMENTS

ISSUE:

Approve the City of Riverside Trash Capture Implementation Plan approach and authorize completion and submittal of the final plan to the Santa Ana Regional Water Quality Control Board.

RECOMMENDATIONS:

That the City Council:

1. Approve the City of Riverside Trash Capture Implementation Plan approach; and
2. Authorize the City Manager, or his designee, to complete the final Implementation Plan and submit to the Santa Ana Regional Water Quality Control Board.

COMMITTEE RECOMMENDATION:

The Utility Services/Land Use/Energy Development Committee met on September 10, 2018, with Chair MacArthur, Vice Chair Soubirous, and Member Gardner present, to consider an update on the Trash Capture Implementation Plan and State Trash Amendments. After discussion, the Committee unanimously: (1) received and ordered filed the update on the Trash Capture Implementation Plan and State Trash Amendments; and (2) forwarded the report to the City Council for review.

BACKGROUND:

The State Trash Amendments require all agencies with regulatory authority over 'Priority Land Uses' to install Full Capture Systems and/or implement programs that achieve Full Capture System Equivalency (FCSE). The objective of these regulations is to fully capture all trash from Priority Land Use (PLU) areas, or an equivalent amount in other areas, by no later than the year 2030. Two options were provided for agencies to comply:

1. Track 1 requires the City to install, operate, and maintain Full Capture Systems for all storm drains within PLU areas throughout the City

2. Track 2 combines installation of Full Capture Systems where feasible with other controls and/or projects for areas where capture devices may not be the best option. This track requires submission of an Implementation Plan that details how the City will comply with the State Trash Amendments.

On October 24, 2017, the Riverside City Council selected Track 2 as the City's method to comply with the State Trash Amendments. Since then, staff has provided updates on the City's planned approach to the Utility Services/Land Use/Energy Development Committee in February 2018 and September 2018.

DISCUSSION:

Track 2 requires submission of an Implementation Plan to the Regional Water Quality Control Board (Water Board) by November 30, 2018. This plan provides a detailed description of how the City will comply with the State Trash Amendments. To assist in its creation, the City initiated a procurement process, received several proposals, and selected Larry Walker Associates (LWA) to help formulate the City's compliance strategy with regard to the State Trash Amendments. Together with LWA, City staff have been preparing the Implementation Plan for submittal by the Water Board's deadline.

Full Capture System Equivalency

Agencies selecting Track 1 are required to fully capture trash in PLU areas through the installation, operation, and maintenance of physical Full Capture Systems in the storm drain system. Agencies selecting Track 2 are required to demonstrate FCSE meaning that the same amount of trash that would be captured if Track 1 were chosen must be captured throughout the City by any combination of Full Capture Systems, Multi-Benefit Projects, other Treatment Controls, and/or Institutional Controls.

To demonstrate FCSE, the City must first calculate the amount of trash that would be generated in PLU areas. LWA performed a parcel by parcel analysis of all parcels within PLU areas. Using a combination of literature values and census data, they established a trash generation rate (gallons/acre/year) for each parcel. LWA further calculated that a total of 77.3 tons of trash are anticipated to be generated from PLU areas each year.

Combination of Controls

LWA and City staff looked at various types of programs that could contribute to achieving the capture of 77.3 tons of trash. Both current programs the City is involved with, and potential programs that the City could adopt (increased trash bins, public outreach, etc.) were evaluated. After an extensive review, four current programs may already be achieving, or close to achieving, FCSE:

1. Keep Riverside Clean and Beautiful (KRCB)
2. Street Sweeping
3. Storm Drain Cleaning
4. Adopt-a-Drain

City staff proposes to use these programs as the primary means to achieve FCSE. It is important to note that when evaluating these programs, certain assumptions were made to calculate the trash capture values provided by each program. Further refinements will be needed to estimate

trash capture to the extent required by the Water Board. Quantifying the amount of trash captured by each of these programs will be a key component of the City's monitoring program and will ensure the requisite amount of trash is captured.

Monitoring and Adaptive Management

As part of the State Trash Amendments, the City is required to monitor the program's effectiveness and report progress to the Water Board. Each year, the weight of trash collected by the combination of controls mentioned above will be compared to the annual milestone (i.e., percent of the FCSE value) to ensure that the programs are on track to achieve compliance over the 10-year compliance period. The following table provides the FCSE value to assess compliance for a ten-year timeframe and annual milestones that will be used to track progress and effectiveness in implementation.

Year	FCSE Value	Year	FCSE Value
1	7.7 tons	6	46.4 tons
2	15.5 tons	7	54.1 tons
3	23.2 tons	8	61.8 tons
4	30.9 tons	9	69.6 tons
5	38.7 tons	10	77.3 tons

If current programs are not meeting the reduction requirements, then the City will have to enhance current programs, add additional programs, or install physical full capture systems to achieve compliance. For example, if, after detailed analysis of the combination of controls mentioned above, they are shown to capture 60 tons of trash per year, then the City will have to implement other programs or install full capture systems that will account for the remaining 17.3 tons for years eight, nine, and ten.

Going Forward

This approach utilizes and enhances current City and community programs and provides flexibility for the implementation of future compliance strategies. City staff and LWA are preparing the final Implementation Plan that will be submitted to the Water Board. The plan is subject to approval by the Water Board's Executive Officer. Actual implementation and commencement of the ten year compliance period will be initiated by future Water Board actions.

FISCAL IMPACT:

There is no fiscal impact resulting from approval of the recommendations. Costs associated with implementation of the selected method are evaluated and presented as part of the budgeting process.

Prepared by: Kris Martinez, Public Works Director
 Certified as to
 availability of funds: Edward Enriquez, Acting Chief Financial Officer/City Treasurer
 Approved by: Rafael Guzman, Assistant City Manager
 Approved as to form: Gary G. Geuss, City Attorney

Concurs with:

A handwritten signature in black ink, appearing to read "Chris MacArthur", written over a horizontal line.

Chris MacArthur, Chair
Utility Services/Land Use/Energy Development Committee

Attachments: Presentation