

Staff responses to Mayor Clarke's additional measures:

1. **Add additional Blue and Black containers along the Ballona Creek Bike path. Clearly mark what is accepted. Pursue public-private funding and grant funding opportunities.**

Staff has installed additional trash receptacles at the following intersections along the bike path; Duquesne, Overland and the pedestrian bridge by the high school. Staff has developed a concept to address Mayor Clarke's request. Staff researched several containers that minimize congestion on the bike path. Staff also researched several vehicles that would be appropriate for litter collection along the bike path. Both are shown in the pictures below.



The photo on the left is a 20 gallon trash receptacle which can be mounted on a strut/metal sign pole or fence post. It is approximately \$252. Due to the length of the bike path, staff would initially install approximately 24 containers (assuming appropriate locations can be identified) and add –on as necessary annually. Initial start-up cost is **\$6,028 plus tax and shipping.**

The photo on the right is the Mighty E Truck (electric vehicle) and is the proper size to collect trash along the bike path if smaller receptacles are strategically installed. These containers would be added to the public litter container collection program. This Mighty E truck is approximately **\$ 50,000**. The vehicle purchase is a one - time capital cost for the equipment but maintenance would be on-going at approximately **\$ 5,000 per year.**

A Laborer would be assigned to drive the vehicle and collect the trash receptacles along the bike path. The annual cost for a full time laborer at Step 1 is **\$ 38,966 plus benefits.**

Table 1 Initial Start-Up Costs

Equipment/Staff	Unit Cost	Total Cost
20 gallon trash receptacles	\$ 252	\$ 6,048 + tax and shipping
Might E Truck	\$ 50,000	\$ 50,000 + tax + misc.
Laborer	\$ 38,966	\$ 38,966 + benefits
Total Start Up Costs		\$ 95,014 to \$ 100,000

Table 1B Annual On-Going Costs

Equipment/Staff	Unit Cost	Total Costs
20 gallon trash receptacles	\$ 252	\$ 2,520
Mighty E Truck Maintenance		\$ 5,000
Laborer		\$ 38,966 + benefits
Total On-Going Costs		\$ 46,486 to \$ 50,000

Staff will apply for an Urban Blight Grant offered through CalRecycle in June 2017. Staff will also research grants through Keep America Beautiful. This program would not begin until 3rd quarter FY 17/18 and be contingent upon grant funding for initial start-up.

**2. Add additional blue and black receptacles at bus stops, parks and other public facilities.
Clearly mark what is accepted. Pursue public-private and grant fund opportunities.**

City staff service 130 public litter containers citywide. Of the 130 public litter containers serviced, 4 containers are located along intersections adjacent to Ballona Creek and 28 containers are located at Culver City bus stops. The Transportation Enterprise Fund reimburses the Environmental Program and Operations Enterprise Fund for the litter collection service at the bus stops. In addition, the Transportation Department currently services approximately 149 trash containers citywide.



The photo on the left is a public litter container. These containers cost approximately \$ 625 each plus tax and shipping fees. These containers are installed in the Right of Way, parks and at bus stops for

litter containment. The containers are on a specific route and collection schedule Monday thru Saturday. The photo on the right is a proposed container for the Ballona Creek Bike path. Cost information relevant to adding containers on Ballona Creek Bike path was discussed in Request # 1 above.

The Parks Maintenance Division will complete a separate cost analysis of adding additional trash and recycling containers in the parks.

Table 2A Initial Start-Up Costs

Equipment/Staff	Unit Cost	Quantity	Total Cost
20 gallon trash receptacles	\$ 252	24	\$ 6048 + tax + shipping
Total Start Up Costs			\$ 6,048 + tax + shipping

Table 2B Annual On-Going Costs

Equipment/Staff	Unit Cost	Quantity	Total Costs
20 gallon trash receptacles	\$ 252	10	\$ 2,520
Total On-Going Costs			\$ 2,520

Staff will apply for an Urban Blight Grant offered through CalRecycle in June 2017. Staff will also research grants through Keep America Beautiful. This program would not begin until 3rd quarter FY 17/18 and be contingent upon grant funding for initial start-up.

3. Conduct enhanced collection along Ballona Creek, parks, bus stops, etc.

The responses in Requests 1 & 2 above will cover the costs of adding containers and enhancing collection.

4. Obtain approval from court for traffic offenders assigned to Ballona Creek cleanups.

The Environmental Programs and Operations Division is currently researching this program. Staff has contacted the Volunteer Center in Torrance with various locations on the Westside of Los Angeles. Community service workers may be assigned to litter clean up along the Ballona Creek bike path and surrounding areas. Minimal costs are associated with this program concept.



Table 3 Community Service Worker Program

Equipment/Staff	Unit Cost	Total Costs
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Safety Goggles	\$ 1.60	\$19.20 per dozen
Dust Masks	\$ 1.12	\$ 22.43 package of 20
Safety vests	\$ 14.00	\$ 168 per dozen
Safety Gloves	\$ 3.50	\$ 42 per dozen
Litter Pickers	\$ 45.50	\$ 273
Litter bags	\$ 15	\$ 15 package of 50
Total Costs		\$ 539.63

Staff administrative fees would be associated with the program for processing paperwork and providing assignments to workers. This program may be implemented during the last quarter of FY 16/17.

5. Phase out Styrofoam take-out food containers from restaurants/take-out establishments and mandate “compostable alternatives”

Various studies would need to be conducted to determine how to phase out Styrofoam take-out containers and/or provide incentives to restaurants/take-out establishments to use compostable alternatives.

6. Establish a blue bin recycling program for Styrofoam and polystyrene and education programs for residents and businesses. Look for grant programs to fund.

[BK1][HC2]The City has entered into a pilot program with Titus in Los Angeles in October 2016. After the City’s contractor CR&R processes recyclables generated from our residents’ blue containers placed curbside on collection day, CR&R transports the residuals (non-recyclable material found in the recycling stream) to the landfill. As part of the pilot program established with Titus, CR&R transports 20 tons of the residual material to Titus each month. Titus processes these 20 tons to obtain further recyclable materials from the residual waste stream. The following is a waste characterization report of 10 tons of residual materials processed through Titus on November 12, 2016:

Table 4

materials	pounds	Percent of total load	Trash
Aluminum CRV	36	0.181%	
Mix Metals	748	3.764%	
Polystyrene Foam and Hard Plastic Polystyrene	41	0.206%	
MIX Paper	4648	23.391%	
PET (1)	177	0.891%	
HDPE Color & LDPE (2) & (4)	1119	5.631%	
OCC	563	2.833%	
Tin Cans	205	1.032%	
Non-CRV Aluminum	24	0.121%	
Cartons	28	0.141%	
Rigid Plastics (7)	314	1.580%	
Polypropylene (5)	58	0.292%	
Neutral	865	4.353%	4.353%
Metal (contaminated)	100	0.503%	

Under 2 inches	2258	11.363%	11.363%
Bags & Compactor Trash	8687	43.717%	43.717%
	19871	100.000%	59%

Titus recovered approximately 41 % of the secondary materials from the residual waste stream. The remaining 59% of the material was landfilled. All of the polystyrene material was recovered and recycled amounting to about 1/5 of one percent of the total. Titus will continue to process 20 tons of material each month for Culver City for the remaining 4 months of the pilot program. Once the initial pilot is completed, City staff will initiate an analysis to determine if the program should continue to recover materials from the residual waste stream. If it is found to be financially feasible and desirable to do so, staff will add polystyrene to its list of materials that can be placed in blue bins and initiate a public education program to inform residents. The cost of the public education program will be approximately \$5,000.

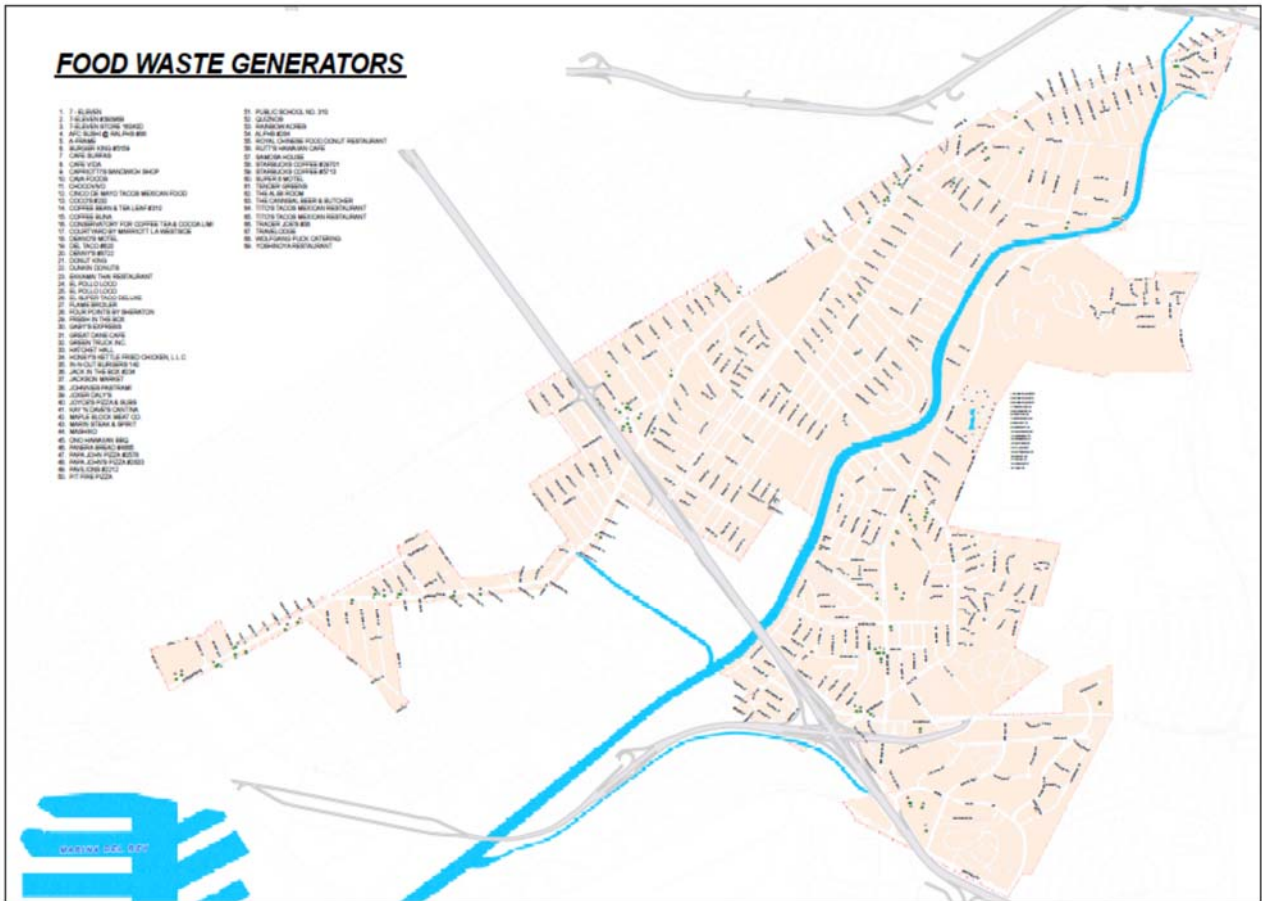
7. Amend contract with CR&R to provide for utilization of Titus as a Secondary materials Recycling Facility (MRF)

Once the initial pilot program with Titus is completed, City staff will initiate an analysis to determine if the secondary materials recovery program should continue to recover materials from the residual waste stream. This analysis will include costs for processing materials to Titus, hauling fees to CR&R, City staff oversight of the program and final disposal facilities fees.

8. Establish a food waste collection program for the City's restaurants, hotels, grocery stores and residents, etc. utilizing Anaerobic Digestion to produce Renewable Natural Gas. Pursue grant programs to fund.

The State of California enacted AB 1826 in 2014. This legislation requires all commercial businesses that generate 8 yards of organic materials weekly to have an organics program by April 2016. The Environmental Programs and Operations Division is developing an organics program to comply with this mandate. Currently there are 70 commercial businesses that must comply with the requirements established in the mandate. Of these 70 retailers, 15 are participating in the program.

City staff developed a GIS map to assist in planning a new organics/food waste collection route for those retailers that still must comply.



Additional costs to implement this program include:

Table 5A Initial Start-Up Costs

Equipment/Staff	Unit Cost	Total Costs
FL Vehicle	\$ 275,000	\$ 275,000
3 yard containers	\$ 800	\$ 44,000
Educational Materials	\$ 550	\$ 550
Sanitation Driver		\$ 47, 568 + benefits
Laborer		\$ 38,966 + benefits
Total Start - Up Costs		\$ 406,084

Table 5B Annual On-Going Costs

Equipment/Staff	Unit Cost	Total Costs
Sanitation Driver		\$ 47, 568 + benefits
Laborer		\$ 38,966 + benefits
Vehicle Maintenance		\$ 19, 775
Vehicle Fuel		\$ 3,050
Hauling fees to compost facility	\$ 9.48 per ton	\$ 25,000

Processing Fees at Compost Facility	\$ 47 per ton	\$ 122,200
Total		\$ 256,559

Many of the costs listed in Table 5A are included in the Environmental Programs and Operations Division Enterprise Fund budget for FY 16/17. Staff will review an existing rate study to determine if rates need to be increased to comply with this and other state mandates in future fiscal years.

Staff will also tour an Anaerobic Digestion Facility located in Perris, California on December 13, 2016. Staff will continue to investigate the feasibility and cost implications of transitioning from the existing composting of organic food waste to an anaerobic digestion disposal alternative that emits Renewable Natural Gas.

9. Conduct greater enforcement of anti-littering ordinances.

As is the case with all infractions, an officer must witness the violation in order to issue a citation.

The Police Department (Traffic Bureau Personnel) would conduct an enhanced enforcement period for littering violations whereupon the first half of the enforcement period would be for issuing warnings to violators and the second half would be a “Zero Tolerance” anti-littering enforcement effort. This enhanced enforcement period would accomplish the following:

- Provide littering education to the general public through the warning period.
- Determine if there is, in fact, a littering problem in the City.
- Through citing observed violators, deterrence to future littering would be accomplished.
- During the “Enhanced Enforcement Period,” a method for tracking and documenting violations would be established and a monthly activity report will be generated. The tracking would continue during the non-zero tolerance periods as well.

10. Utilize trash pick-up pricing fees to encourage restaurants/take-out establishments to switch to “compostable” alternatives.

The City Attorney’s Office will investigate whether the City may adopt a refuse collection fee structure to encourage a restaurant to use one type of take-out container over another. Environmental Programs & Operations will research incentive programs for businesses that use compostable alternatives. Incentives could include advertising for businesses that use compostable products or City-sponsored programs through grant funding to assist in off-setting costs for using greener products.

11. Allow restaurants/take-out establishments to provide and charge for compostable take-out food containers.

The City Attorney’s Office is not aware of any existing impediment that would prohibit a restaurant from charging their customers a fee for use of a compostable container.