



DATE: July 25, 2018

TO: Waste Management Authority Board

FROM: Wendy Sommer, Executive Director

BY: Meghan Starkey, Senior Management Analyst

SUBJECT: Acceptance of Bay Area Air Quality Management District Grant for
Public-Private Partnership: Prototyping Technology to Reduce Contamination

SUMMARY

Staff is requesting Waste Management Authority approval to enter into a contract for \$263,658 with the Bay Area Air Quality Management District (BAAQMD) to undertake a full scale, technological approach to identifying and reducing contamination in the commercial organics diversion stream. The project will be a public private partnership with City of Livermore, Livermore's hauler Livermore Sanitation Incorporated (LSI) and two other private companies: Compology and Diversion Strategies.

DISCUSSION

Commercial compost processors are dealing with increasing contamination in incoming loads due to poor sorting. Even a small amount of contamination—such as plastic film, glass and plastic containers—can undermine both the quality of and the market for an end product. Technology at the processing site is expensive and not effective enough to provide a long-term solution by itself, making intervention at the customer level necessary. Processors have begun rejecting loads with contamination levels that are too high, including from the City of Livermore, causing these materials to be landfilled.

This project proposes a replicable model for systematic identification and correction of contamination in organics containers. Using the Compology monitoring system (www.compology.com) for Livermore commercial organics customers, rugged cameras and sensors will be installed inside the bins themselves, and connected to cloud-based software for data collection, review and analysis. The technology will gather GPS location, multiple time-stamped images from inside the container daily (in intervals as small as every 10-15 minutes) and service events, and support both automated and visual content monitoring for contamination. As per the City of Livermore franchise with LSI, the hauler owns both the bin and its contents, and therefore

has the right to take photographs inside the bin itself. City staff has confirmed this type of monitoring is consistent with the franchise. After identifying offenders through these means, the hauler (LSI) will work directly with these businesses to reduce contamination. Furthermore, the technology will also allow dynamic re-routing so that businesses will receive the proper service (organics collection or garbage), depending on the contamination level in the bin. It enables maximum route efficiency, but more importantly, segregates clean bins from contaminated bins, so that one grossly contaminated bin doesn't contaminate a whole truck load.

In addition, the project will study compost contamination through physical sampling and provide analysis and recommendations for implementation in other cities, including discussion of possible rate impacts.

RECOMMENDATION

That the WMA Board adopt the attached Resolution authorizing the Executive Director to enter into all necessary contract agreements with BAAQMD and project partners, and make corresponding changes to the FY 18/19 budget.

**ALAMEDA COUNTY WASTE MANAGEMENT AUTHORITY
RESOLUTION #WMA 2018 -**

**MOVED:
SECONDED:**

AT THE MEETING HELD JULY 25, 2018

**RESOLUTION AUTHORIZING THE EXECUTIVE DIRECTOR TO ENTER INTO
AN AGREEMENT WITH THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT
AND OTHER PROJECT PARTNERS FOR PROTOTYPING TECHNOLOGY TO REDUCE CONTAMINATION
AND OTHER RELATED ACTIONS**

WHEREAS, the Alameda County Waste Management Authority recognizes that it is in the interest of local, regional, state, and federal agencies to divert organic materials from landfill to compost processing; and

WHEREAS, the Alameda County Waste Management Authority recognizes successful commercial organics collection programs are necessary to meet local and state mandates to reduce waste; and

WHEREAS, contamination in commercial organics collections can undermine the quality of and the market for an end product, and thereby threatens the success of organics diversion programs; and

WHEREAS, Waste Management Authority staff have applied for and received grant funding approval from the Bay Area Air Quality Management District for the project “Public Private Partnership: Prototyping Technology to Reduce Contamination;” and

WHEREAS, the Waste Management Authority will be awarded \$263,658 to implement the project as outlined in the attached staff memo;

NOW THEREFORE, BE IT RESOLVED, that the Waste Management Authority hereby authorizes the Executive Director to:

1. Enter into all necessary contracts and agreements with Bay Area Air Quality Management District in order to accept the grant for the “Public-Private Partnership: Prototyping Technology to Reduce Contamination.”
2. Enter into all necessary contracts and agreements with project partners, including City of Livermore, Livermore Sanitation Incorporated, Compology and Diversion Strategies, to implement the project.
3. Approve any required time extensions, modifications, or amendments thereto.
4. Make any necessary changes to the FY 2018/19 budget for this grant, to add Project 3451: BAAQMD – Compost Contamination Prototype
5. Allocate the necessary resources to implement and carry out the project.

BE IT FURTHER RESOLVED that the Executive Director as the Board President’s designee, is hereby authorized to execute on behalf of the Alameda County Waste Management Authority all grant-

related documents, including, but not limited to, applications, payment requests, agreements (including the hiring of temporary staff), and amendments necessary to secure grant funds and to implement the approved grant project.

ADOPTED BY THE FOLLOWING VOTE:

AYES:

NOES:

ABSENT:

ABSTAINED:

I certify that under the penalty of perjury that the foregoing is a full, true and correct copy of Resolution #WMA 2018 –

Wendy Sommer
Executive Director