

# Project Title: 836000 - Anaerobic Digestion and Composting Improvements

<b>Project Category:</b>	Capital	<b>Project Approved Status:</b>	Funded
<b>Project Type:</b>	Solid Waste	<b>Oracle Program Parent 1:</b>	C95 - Environmental Services
<b>Project Phase:</b>	Design	<b>Project Manager:</b>	David Krueger
<b>Year Identified:</b>	2021	<b>Project Origin:</b>	Council
<b>Estimated Comp. Yr:</b>	2024	<b>Council District:</b>	
<b>Report to Council Number:</b>	22-0356	<b>Interdependencies:</b>	

<b>No Carryover</b>	<input type="checkbox"/>	<b>Prevent Inflation</b>	<input type="checkbox"/>	<b>Meets Capitalization Threshold</b>	<input type="checkbox"/>
<b>Technology Component</b>	<input type="checkbox"/>	<b>Park Dedication Eligible</b>	<input type="checkbox"/>	<b>Art in Public Places Eligible</b>	<input type="checkbox"/>
<b>IT Steering Committee</b>	<input type="checkbox"/>	<b>Project Administration</b>	<input type="checkbox"/>	<b>Art in Private Development Required</b>	<input type="checkbox"/>

## Project Description/Scope/Purpose:

This project will reduce the amount of organic waste sent to landfill from the Sunnyvale SMaRT Station. It will increase the amount of organic waste recovered from 1) Source separated food scraps and 2) Mixed solid waste. The project will replace the existing equipment used to process source separated food scraps and will add new equipment to the mixed waste processing line to recover compostable paper.

Processed food scraps will initially be sent to Sustainable Organic Solutions (SOS) in Santa Clara to be further processed into animal feed and an additive to fertilizer. Ultimately, the City plans to send processed food scraps for co-digestion at the Water Pollution Control Plant (WPCP) once it can start accepting this material. The recovered compostable paper will be sent to the Z-Best Composting Facility. The project includes the purchase and installation of the new organics processing equipment. It does not include any on-going public education, collection, processing, maintenance, composting, or anaerobic digestion costs.

## Project Evaluation and Analysis:

The existing food scraps processing equipment at the SMaRT Station has reached the end of its useful life. The existing equipment loses some food scraps when separating food scraps from plastic bags and requires up to 30 minutes to unload a food scraps collection vehicle. The new equipment will more efficiently separate food scraps from plastic bags, decrease collection vehicle unloading times, and increase overall food scraps processing capacity.

Up to 10% (9,300 tons per year) of the material currently sent to landfill from the SMaRT Station is compostable paper such as paper towels, cups, and plates. State law (SB 1383) requires the City to divert compostable paper from landfill. The City's strategy is to recover compostable paper through mixed waste processing instead of source separation. Recovery of compostable paper also supports the City's Zero Waste Strategic Plan.

## Fiscal Impact:

Funding for the purchase and installation of the new organics processing equipment is provided by FY 2021/22 CalRecycle Organic Grant Funds in the amount of \$3,000,000. Required matching funds towards professional/engineering services, and grant administration will be covered through SMaRT NextGen project – 828260 and the Solid Waste program operating budget. On-going operating and maintenance costs will be covered through the SMaRT operating budget. New on-going costs for the food recovery equipment are estimated to be lower than the current operating costs since the new equipment will be more efficient and requires less labor to operate. Sunnyvale pays for 100% of the total operating costs of food scrap recovery. Compostable paper recovery equipment is expected to increase operating costs by approximately \$5,000 per year. These operating costs will be shared between the cities of Mountain View and Sunnyvale.

## Funding Sources:

Funding is provided by a State (CalRecycle) grant of \$3,000,000.

## Explanation of Change:

[FY 2021/22 Notes] The project was created due to the award of a \$3,000,000 State (CalRecycle) grant.

## Plans and Goals:

EM - Environmental Management - EM-14: Recycling and Source Reduction Programs

EM - Environmental Management - EM-15: Environmentally-Sound Disposal

**Actuals**

**836000 - Anaerobic Digestion and Composting Improvements**

	Expenditures	Revenues	Transfers		Expenditures	Revenues	Transfers
Actuals to 2021-22	-	-	-	Actuals to 2021-22	-	-	-
Actual 2022-23	-	-	-	Actual 2022-23	-	-	-
Project Life Budget to 2023-24	3,000,000	3,000,000	-	Project Life Budget to 2023-24	3,000,000	3,000,000	-
<b>Total Available Budget 2023-24</b>	<b>\$ 3,000,000</b>	<b>\$ 3,000,000</b>	<b>\$ -</b>	<b>Total Available Budget 2023-24</b>	<b>\$ 3,000,000</b>	<b>\$ 3,000,000</b>	<b>\$ -</b>

**Budget/Forecast**

**Funding Source:** Department of Resources Recycling and Recovery (CalRecycle)

**Award:** G220356 - 2021-22 Organics Grant Program

2024			2025			Proposed Change	
Budget Year	Expenditures	Revenues	Budget Year	Expenditures	Revenues	Expenditures	Revenues
2023-24	-	-	2023-24	-	-	-	-
2024-25	-	-	2024-25	-	-	-	-
2025-26	-	-	2025-26	-	-	-	-
2026-27	-	-	2026-27	-	-	-	-
2027-28	-	-	2027-28	-	-	-	-
2028-29	-	-	2028-29	-	-	-	-
2029-30	-	-	2029-30	-	-	-	-
2030-31	-	-	2030-31	-	-	-	-
2031-32	-	-	2031-32	-	-	-	-
2032-33	-	-	2032-33	-	-	-	-
2033-34	-	-	2033-34	-	-	-	-
2034-35	-	-	2034-35	-	-	-	-
2035-36	-	-	2035-36	-	-	-	-
2036-37	-	-	2036-37	-	-	-	-
2037-38	-	-	2037-38	-	-	-	-
2038-39	-	-	2038-39	-	-	-	-
2039-40	-	-	2039-40	-	-	-	-
2040-41	-	-	2040-41	-	-	-	-
2041-42	-	-	2041-42	-	-	-	-
2042-43	-	-	2042-43	-	-	-	-
<b>Fund Total</b>	-	-		-	-	-	-