

# Interim Food Waste Receiving Facility, P2-124 Pricing and Policy Discussion

Operations Committee Meeting May 6, 2020





### Objectives







- Help cities divert food waste from landfills
- Utilize existing OCSD infrastructure
- Recover energy and organics from food waste
- Provide a cost-effective option for ratepayers

### History











### Location – Plant No. 2











### **Facility Highlights**









- 10-15 Year Life
- 150 Wet Tons/Day
- 5-6 Trucks/Day
- 15% Gas Production Increase













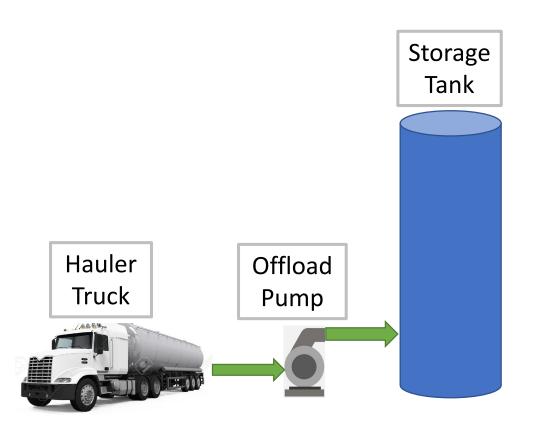










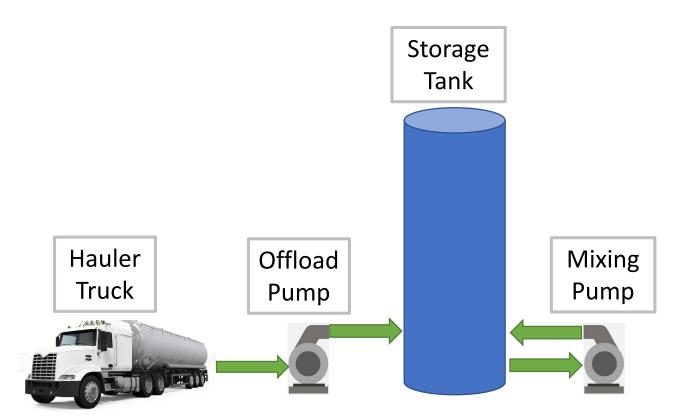










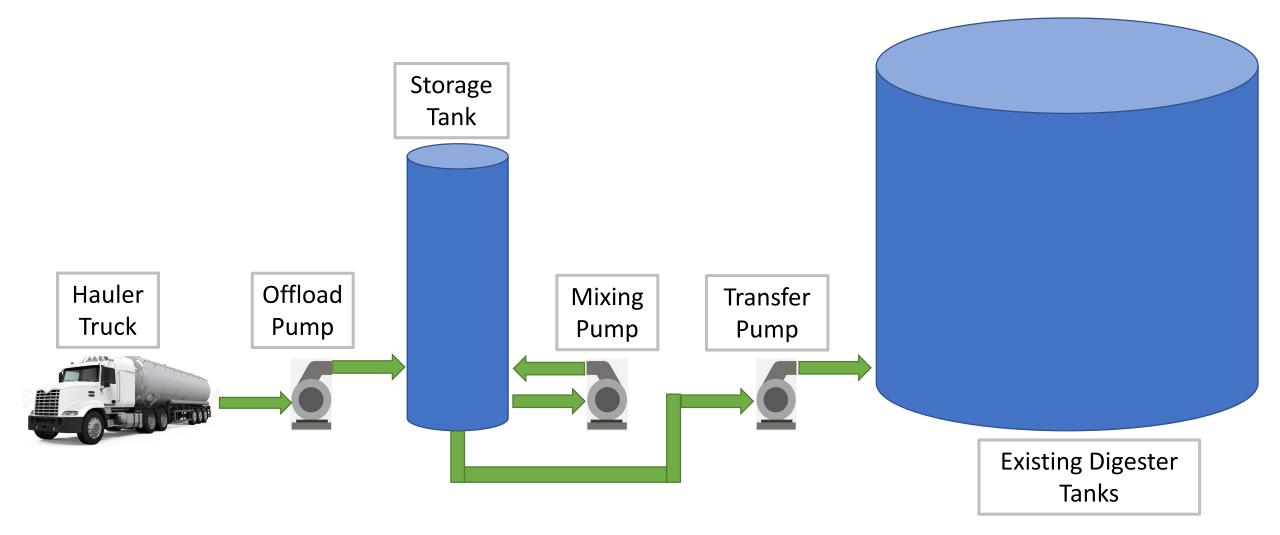












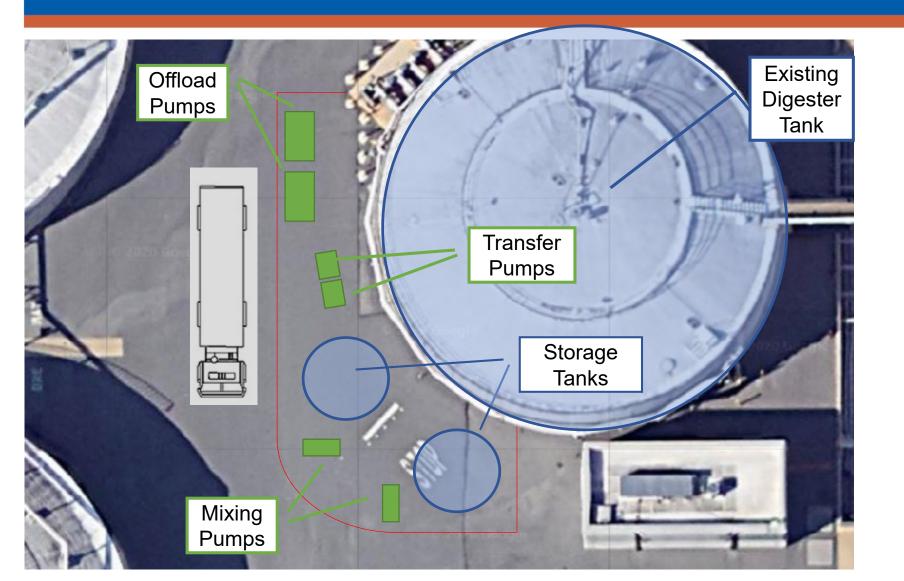
### **Facility Layout**











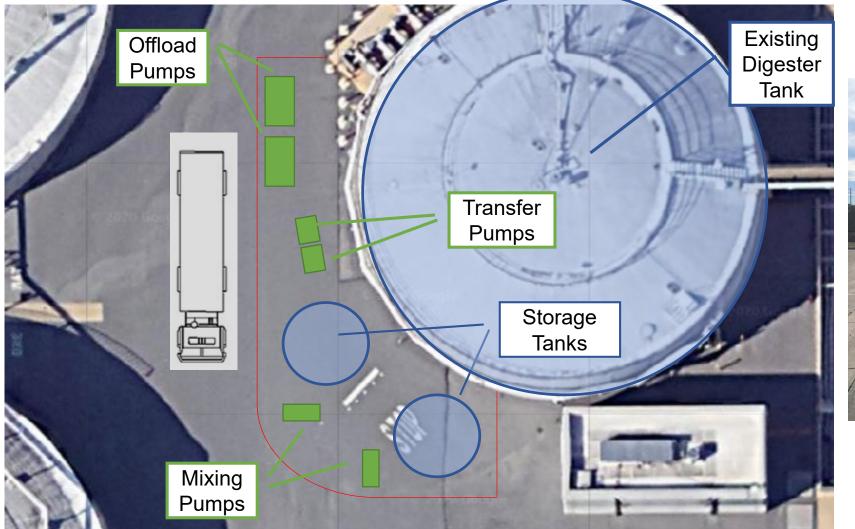
# **Facility Layout**













# Project Budget & Schedule









Budget	
Construction	\$3.3M
Non-construction	\$2.2M
Contingency	\$0.8M
<b>Total Project</b>	\$6.3M

Schedule	
Advertise Bids	July 2020
Construction Award	Nov 2020
Facility On-line	Apr 2022

### 2019 Strategic Plan









### Tipping Fee Policy Question:

How should OCSD structure the tipping fee for digestion of food waste?

### **Tipping Fee Basis**









Tipping fee cannot exceed OCSD costs

 Tipping fee transparency and notification to member agencies

 Different fee for food waste from outside OCSD's service area

### **Cost Recovery - Overview**









### Cost Recovery

- Capital
- O&M
  - New Facility
  - Impact to Existing Facilities
- Benefits to OCSD
  - More Gas = Less SCE

### Cost Recovery - Capital, O&M









### Costs (\$/ton)

	5-Year Capital Recovery	10-Year Capital Recovery
Capital Costs	\$23	\$12
O&M Costs	\$18	\$18
Subtotal	\$41	\$30

# Cost Recovery – Benefits of Extra Gas









### Quality Food Waste = Less SCE Electricity Purchased

	5-Year Capital Recovery	10-Year Capital Recovery
Savings Range	(\$2-9)	(\$2-9)
Electricity Savings	(\$4)	(\$4)

### **Tipping Fee - Total**









### Costs (\$/ton)

	5-Year Capital Recovery*	10-Year Capital Recovery
Capital Costs	\$23	\$12
O&M Costs	\$18	\$18
Electricity Savings	(\$4)	(\$4)
Tipping Fee	\$37	<b>\$26</b>

### Comparable Agencies







Agency	Tipping Fee and Tonnages	Vendors and Feedstock	Onsite Food Process	Contract Term	Cost of Project	Cost Recovery
OCSD - Planned	\$26 - \$37/ton: 150 tpd	TBD	NO	TBD	\$6.3M	YES (Construction and O&M)
LACSD Current	\$25/ton: 250-300 tpd – Direct discharged into headworks (no-co- digestion)	8 Vendors Preprocessed Food Waste and FOG	NO	Year to Year	N/A	N/A
LACSD Planned Project (2021)	\$25-\$40/ton: 100- 150 tpd Co-Digestion	3 Vendors Preprocessed Food Waste	NO	TBD	\$877,500 Repurposing Existing Food Waste Receiving Station.	YES (Construction and O&M) –Time Length TBD

## Other Similar Agencies









Agency	Tipping Fee and Tonnages	Vendors and Feedstock	Onsite Food Process	Contract Term	Cost of Project	Cost Recovery
East Bay Municipal Utility District	\$50/ton: 15-70 tpd	Central Contra Costa County Solid Waste Authority - Food Waste	YES (Additional Processing)	10 Years (2014-2024) with two one-year extensions	\$5M	YES only O&M
Central Marin Sanitation Agency	\$23.90/ton: 15-70 tpd	Marin Sanitary Service - Food Waste	YES (Additional Processing)	10 Years (2016-2026) with three one-year extensions	\$7.8M	YES (Const. and O&M) 10 year pay back

### Other Similar Agencies









Agency	Tipping Fee and Tonnages	Vendors and Feedstock	Onsite Food Process	Contract Term	Cost of Project	Cost Recovery
Encina Wastewater Authority	\$0.035/gallon + \$45,000/year (CPI) 50K-80K gallons/week	Stone Brewery Waste and Other Vendors FOG	NO	8 Years (2015- 2023)	\$2.3M	YES (Construction and O&M) 4 year back
City of Petaluma (Under Construction)	\$0.04/gallon	Clover Stornetta Dairy and Petaluma Poultry Processors	NO	TBD	\$6M	YES (Construction and O&M) 4 year back – Includes \$3M Grant and Energy Credits

# **Summary Tipping Fee for Preprocess Food Waste for Co-Digestion**











### Service Area and Solid Waste **Providers**



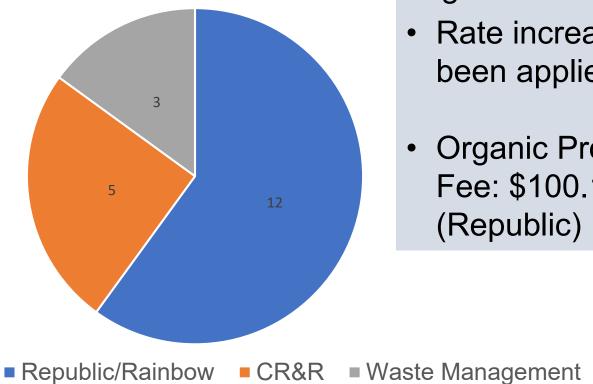








#### City Member Agencies



#### Organic Processing Fees:

- Rate increases have been applied
- Organic Processing Fee: \$100.10/ton (Republic)

### **Potential Food Waste Slurry Providers**









Food Waste Slurry

Republic Services

Waste Management,

















### **Tipping Fee Deal Points**









Term duration of agreement

Quality (specs) of the food waste slurry

### **Next Steps**



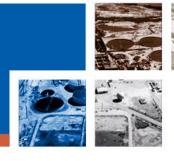






- Set OCSD food waste tipping fee
- Secure agreement(s) with potential vendor(s)
- Construct food waste receiving station
- Start receiving food waste

### **Outcome of Tipping Fee Analysis**



How should OCSD structure the tipping fee for digestion of food waste?

- 5-Year Capital Recovery option-\$37/ton (Interest 3%)
- 10-Year Capital Recovery option- \$26/ton
- OCSD will approach solids waste providers based on an open and a fair process to secure food waste slurry

### Questions











### Thank You







