

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

Operations Committee Meeting May 6, 2020





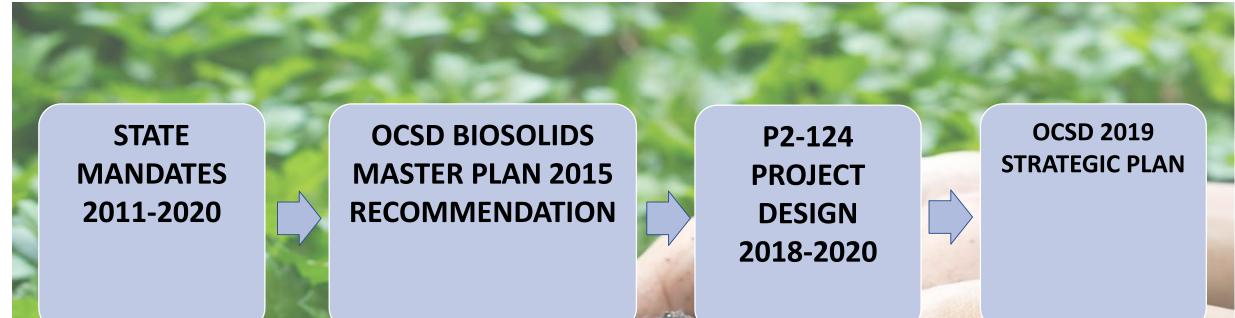


- Help cities divert food waste from landfills
- Utilize existing OCSD infrastructure
- Recover energy and organics from food waste
- Provide a cost-effective option for ratepayers

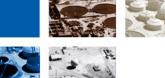








Location – Plant No. 2





Facility Highlights

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





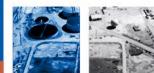


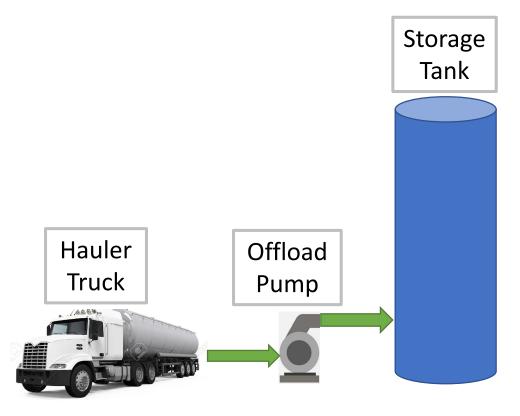






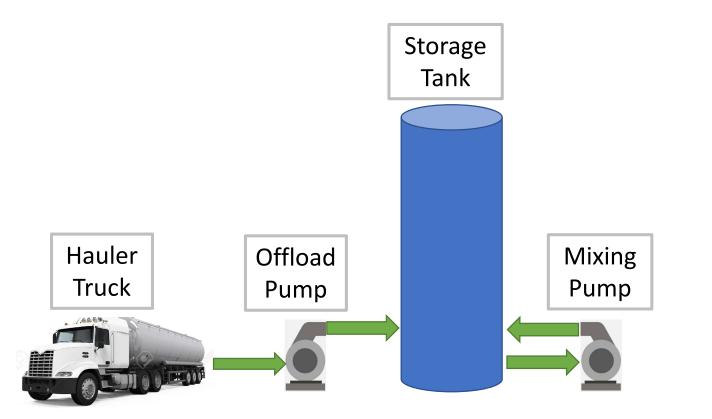




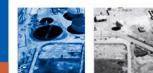


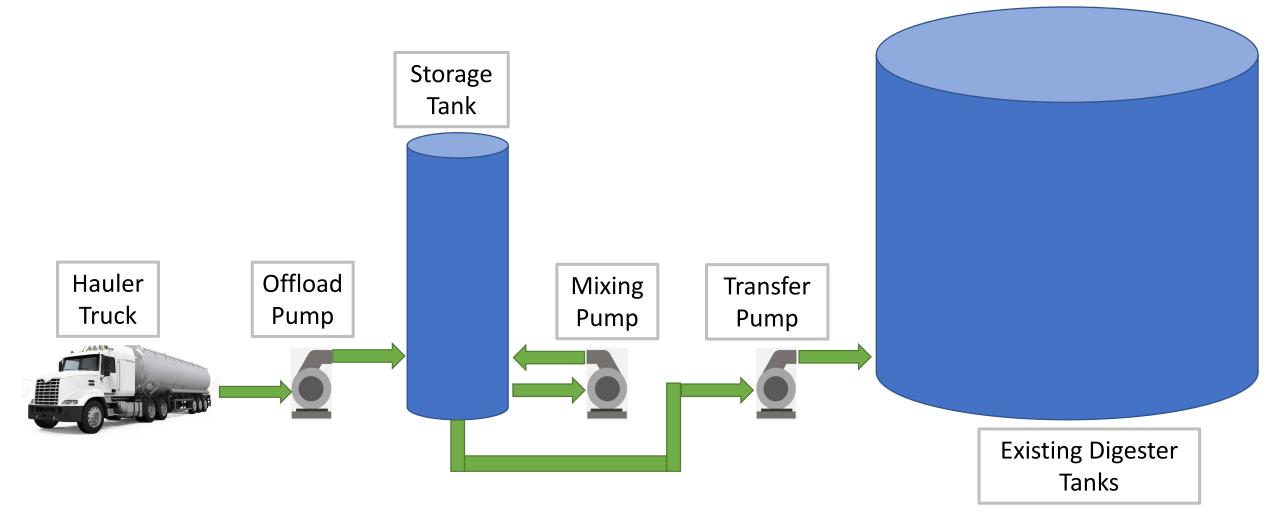






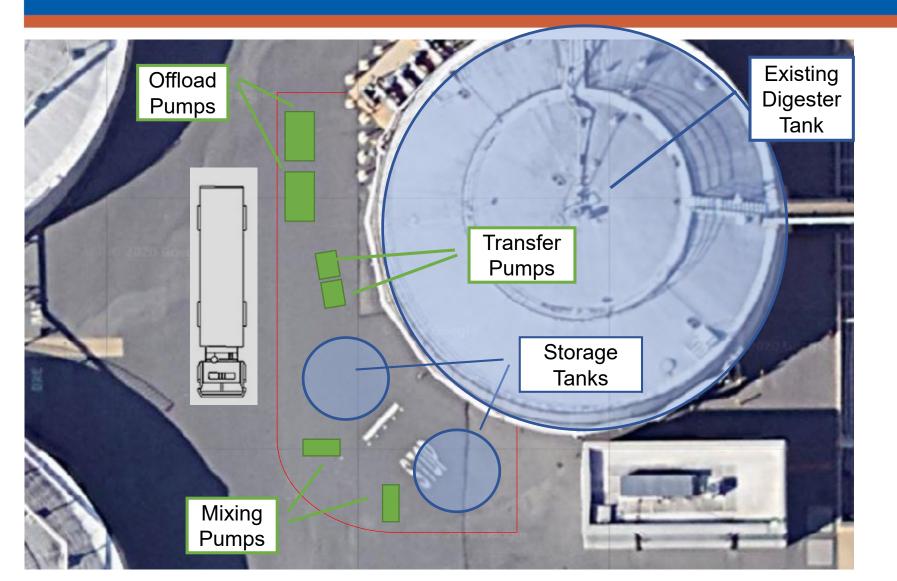






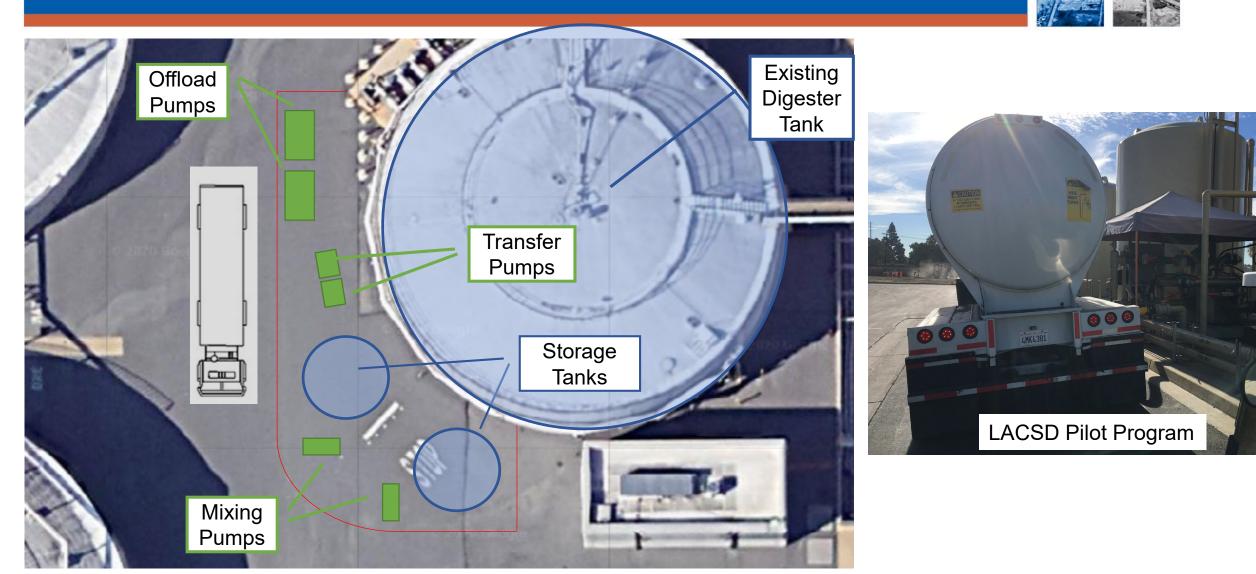
Facility Layout





Facility Layout





Project Budget & Schedule



Budget		Schedule	
Construction	\$3.3M	Advertise Bids	July 2020
Non-construction	\$2.2M	Construction Award	Nov 2020
Contingency	\$0.8M	Facility On-line	Apr 2022
Total Project	\$6.3M		

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	\$26

Comparable Agencies

Vendors Onsite Contract **Cost of Project** Agency **Tipping Fee Cost Recovery** and Tonnages Term and Food Feedstock **Process** OCSD -\$41/ton (1-5 Years) TBD NO TBD \$6.3M YES Planned \$18/ton (6-10 (Construction and O&M) Years): 150 tpd LACSD \$25/ton: 250-300 N/A 8 Vendors NO Year to N/A Current tpd – Direct Preprocessed Year discharged into Food Waste headworks (no-coand FOG digestion) LACSD \$25-\$40/ton: 100-3 Vendors NO TBD \$877,500 YFS Planned 150 tpd Preprocessed Repurposing (Construction and O&M) Food Waste **Co-Digestion Existing Food** -Time Length TBD Project (2021)Waste Receiving Station.



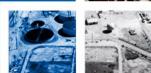


Other Similar Agencies



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

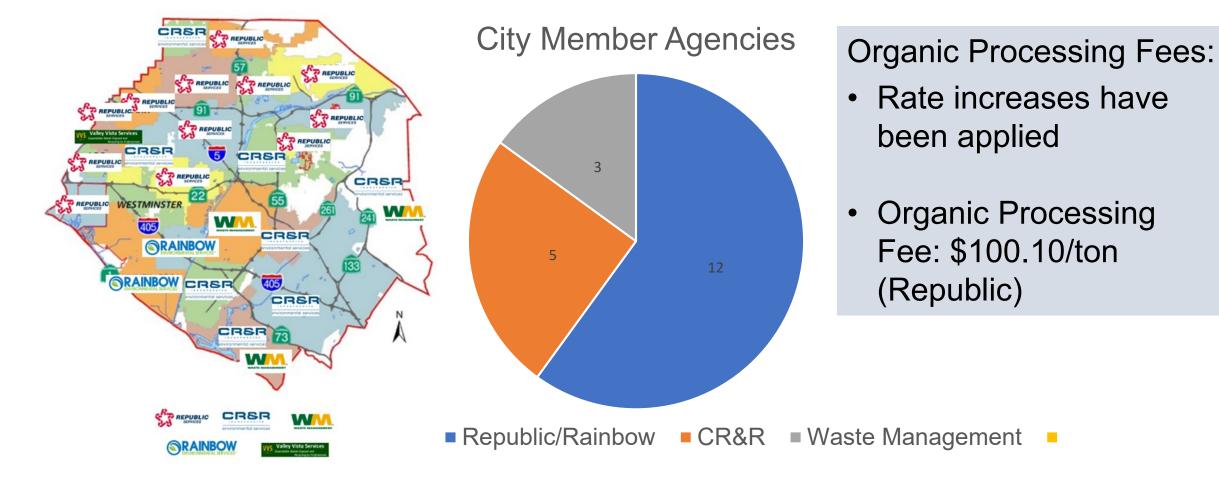


Summary Tipping Fee for Preprocess Food Waste for Co-Digestion





Service Area and Solid Waste Providers







Potential Food Waste Slurry Providers



- Republic Services
- Waste Management











Tipping Fee Deal Points



Term duration of agreement

•Quality (specs) of the food waste slurry

• Price Change - Regulatory Milestones

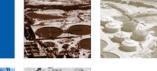
Next Steps





- 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

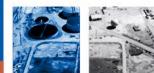


How should OCSD structure the tipping fee for digestion of food waste?

- 5-Year Capital Recovery \$37/ton (Interest 3%)
- Once capital costs have been recovered, reduce tipping fee to O&M only cost (\$18/ton est.)
- OCSD will approach solids waste providers based on an open and a fair competitive process to secure food waste slurry

Questions







Thank You



