



Solid Waste Services

Compost Yard Construction

Item no. 25-0861

City Council
Presentation

Background

March 2021 Agenda Item 21-0222 approved Professional Services for Phase I of design and permitting.

September 2023 TCEQ approved permit.

January 2024 Agenda Item 24-0003 approved Professional Services for Phase II design and bid package.

June 2024 Compost Equipment procurement is complete.

February 2025 Design completed and advertised for bid.



**ADOPTED FY 2021-2022
CAPITAL BUDGET**



**ADOPTED BY CITY COUNCIL
ORDINANCE NO. 032540
ON SEPTEMBER 7, 2021**

**CITY OF CORPUS CHRISTI
CITY MANAGER PETER ZANONI**

Project Background

- The compost yard will be capable of processing 120,000 tons per year or mixed organics.
- The project is a registration level compost facility able to compost multiple feedstocks; biosolids, brush, source separated organics and other vegetative material.
- Removes compostable materials from the landfill.
- Generates cost savings by;
 - Reducing Operations and Maintenance costs.
 - Deferring capital expenditures by saving valuable landfill space.
- Large-scale composting is a waste handling best management practice.

Compost Process

- Actively managed aerobic decomposition of organics thru windrow composting
- Windrows meet State's requirement for Process for Reduction of Pathogens by meeting Time and Temperature requirement
- 5 mixes over 15 days above 131°F
- Finished product aged for 180 days on average



Local Feedstocks

- Biosolids
- Vegetation, Brush, Tree Trimmings, Yard Waste, Mulch
- Cotton Bur Waste
- Beverages
- Animal Manure
- Source-separated Organics - ie. Cafeteria waste
- Fish Waste



Local Users

- Parks Department
- Golf Courses
- Local TXDOT
- Landfill

Benefits of Composting

- Cheaper than Landfilling

Cost to process 80,000 tons is \$482K composting vs. \$1.38M landfill

- Reduces waste

Diverts municipal waste from landfill and helps achieve State's 40% diversion rate goal

- Extends municipal landfill life by diverting organic materials

Landfill cells are constantly built vs. compost facility built once

- Recycles local organic materials into a valuable soil amendment

Compost is a valuable soil input that can improve turf and agriculture outcomes

- Potential revenue generation through compost sales

Will develop partnerships with local vendors and landscapers to supply local compost

Similar size facility for the City of McAllen produces about \$450K per year in sales

Compost Construction Bid Tabulation

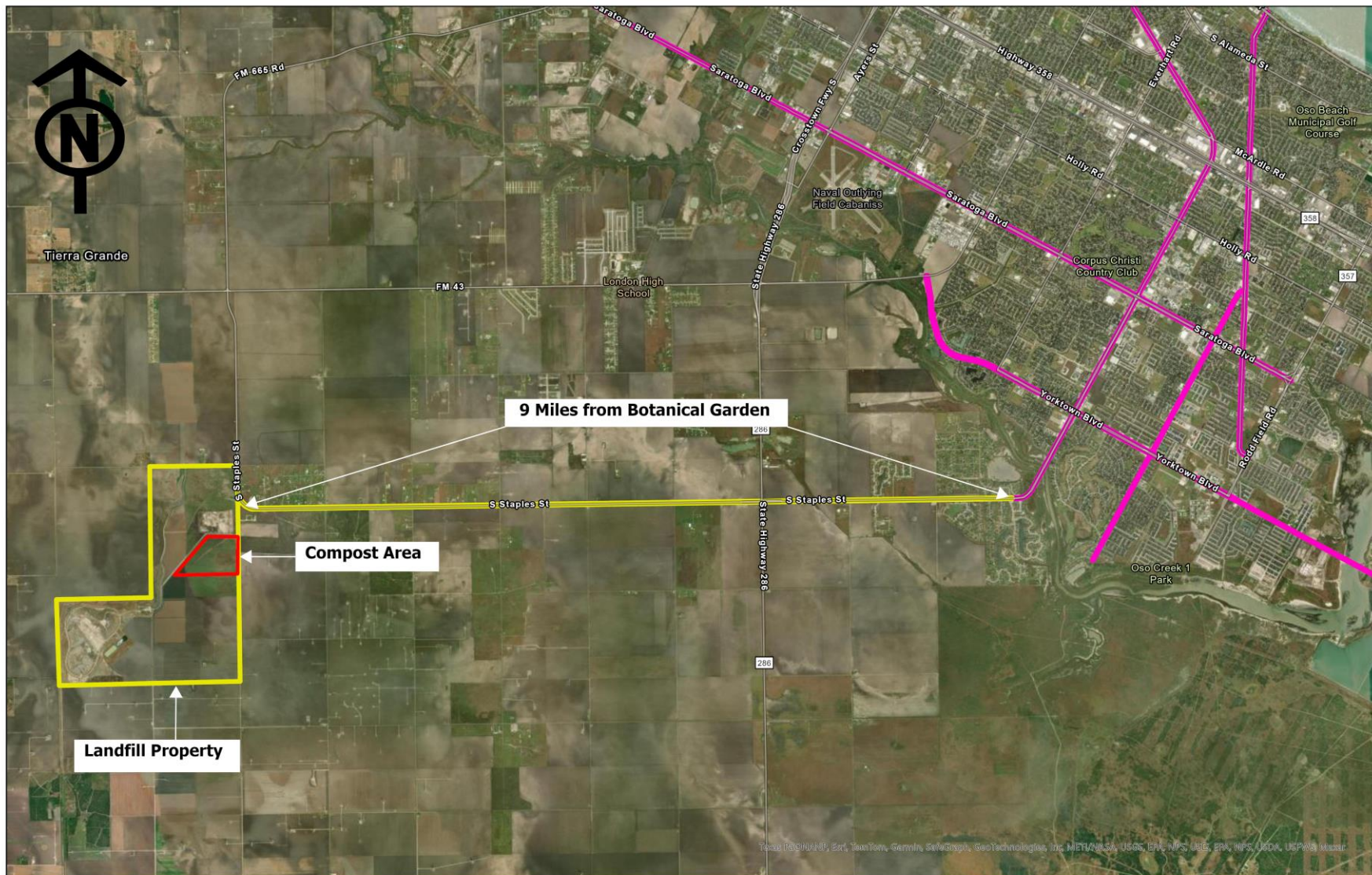
RFB 6337 Project No. 20288 Solid Waste Compost Facility

JE Construction Services, LLC Corpus Christi, TX	Stout Excavating Group Converse, TX	Gerke Excavating Tomah, WI	Kocurek Land Improvement Banquete, TX	FCS Construction, LLC Frisco, TX	Persons Services Corp. Humble, TX	4X Construction Group Mansfield, TX
\$5,489,119	\$6,480,911	\$6,674,071	\$7,073,364	\$7,130,310	\$7,321,281	\$7,499,935

Project Timeline

2024-2025	2025	2025-2026
February - February	March - July	August - February
Design	Bid/Award	Construction

Physical Location





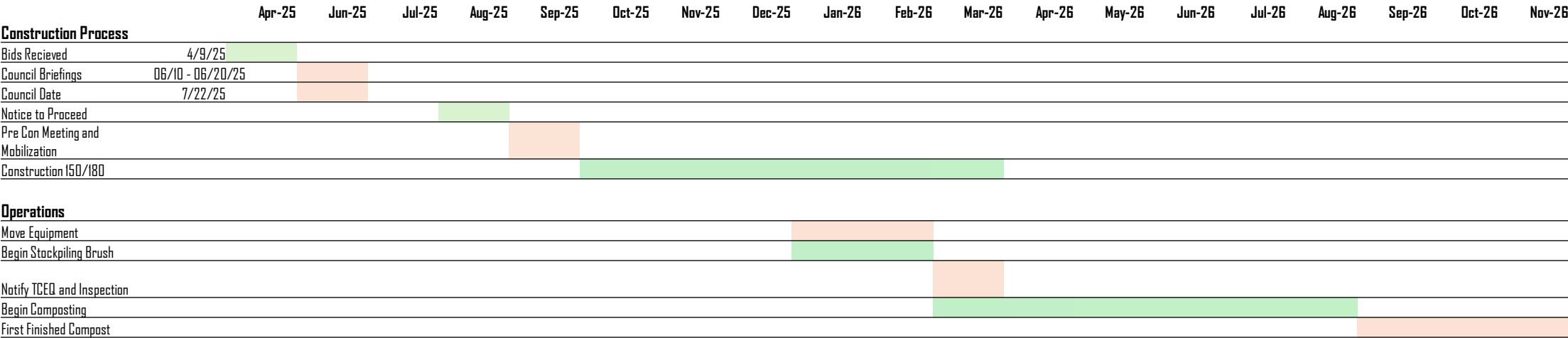
Questions?

Philip Aldridge, Director
Solid Waste Services

Solid Waste Compost Facility

Timeline

CIP 20288
Agenda 25-



Project Milestones

09-2023	Permit Approved
10-2023	3 rd party Brush Disposal contract Canceled
06-2024	Equipment Procurement Complete
02-2025	Design Complete