

Safeguarding the Environment Through Compost Manufacturing in Charlotte County

SYNAGRO

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People + Planet → Synchronization

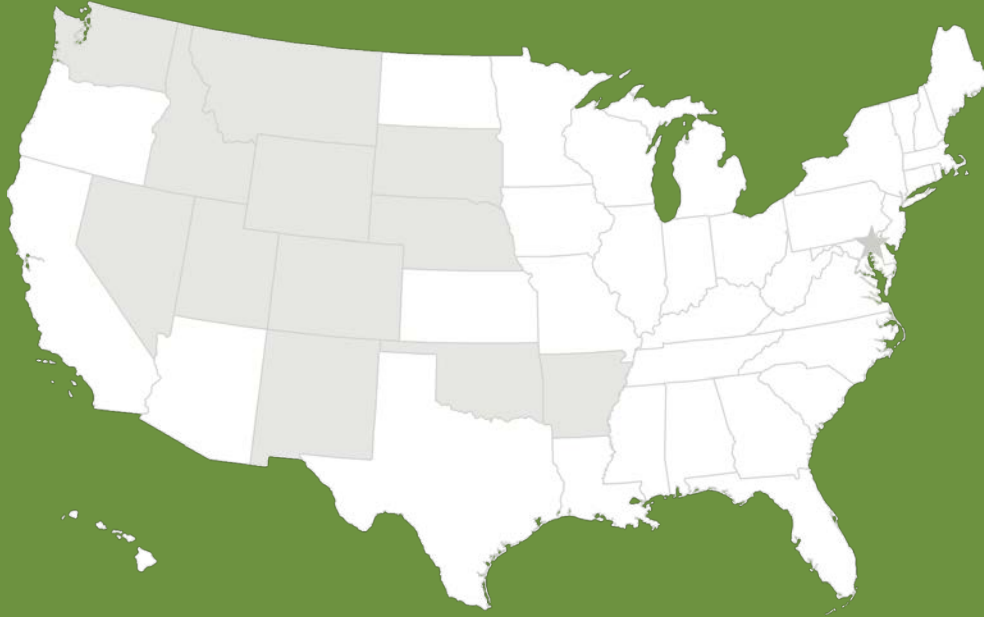


City of Venice
December 10, 2019



INDUSTRY LEADER

Synagro is the nation's largest and most experienced Biosolids Management Company



Synagro Experience and Breadth

- Over 600 municipal and industrial clients in 34 states
- Manage over 12 million tons of biosolids annually
- 9 Class A drying/pelletizing single-customer facilities
- 3 Regional Merchant Thermal Reduction Facilities
- 6 Class A Compost Facilities
- Over **70** permanent and mobile dewatering locations
- Permitted land base of over **1,000,000** acres
- Over **\$350** million in annual revenues
- \$3 billion contract backlog
- Acquired by EQT Infrastructure II Fund August 2013

SYNAGRO FLORIDA SERVICES

Synagro is
Florida's
largest
biosolids
management
partner with
annual
revenues of ~
\$25 million

CCBRC COMPOSTING



MOBILE DEWATERING



PINELLAS DRYING



LAND APPLICATION





FLORIDA WASTEWATER ENVIRONMENT



CHARLOTTE COUNTY BIO-RECYCLING CENTER (CCBRC)



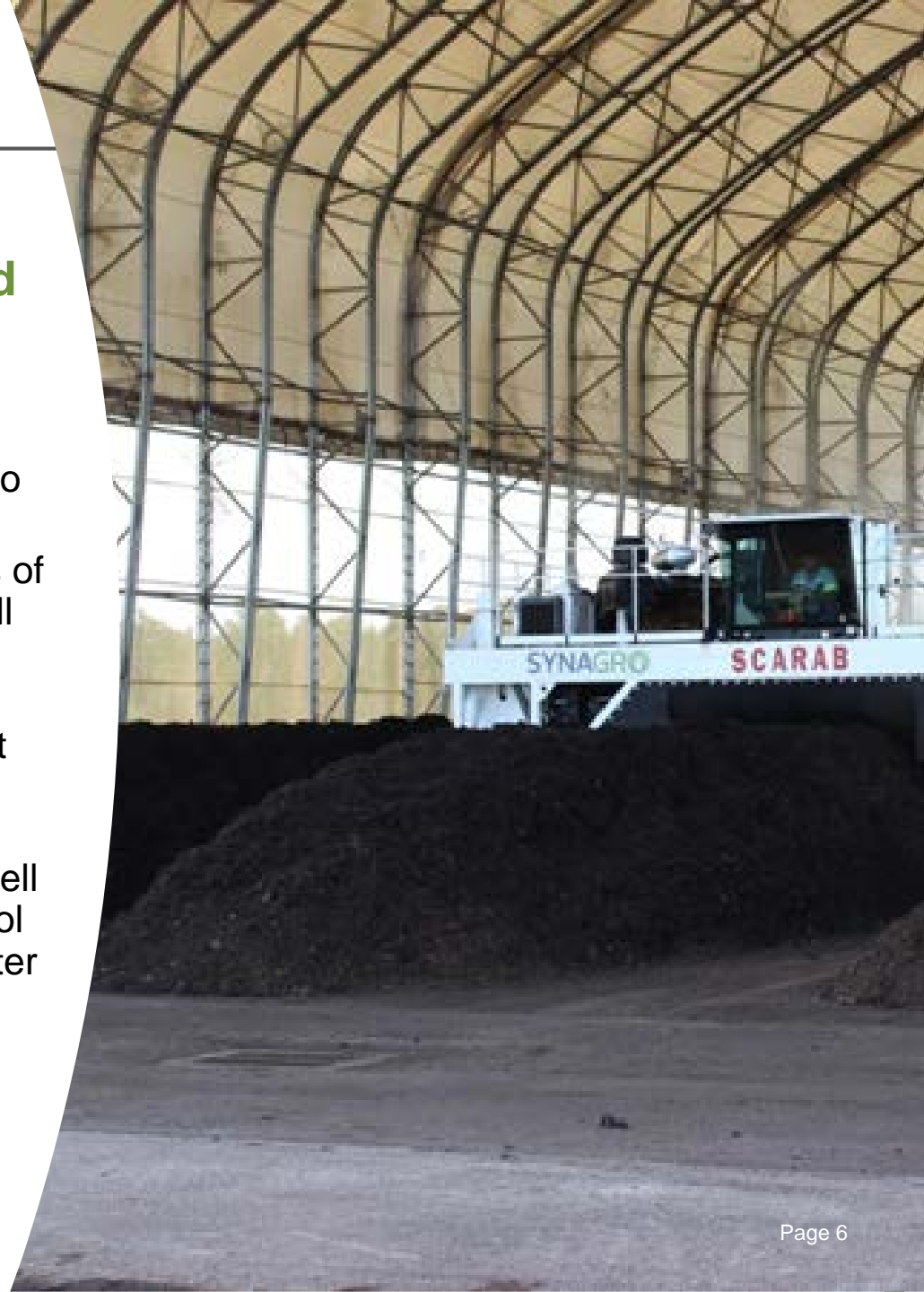
Opened 1st quarter 2014, the facility provides Class AA biosolids processing services to over 30 municipal generators in the sensitive Okeechobee and Caloosahatchee watersheds.

CHARLOTTE COUNTY BIO- RECYCLING CENTER (CCBRC)

ENVIRONMENTAL CONTROLS

Facility Protection of Ground and Surface Water Quality

- Composting on covered asphalt pad providing impervious operating surfaces to minimize stormwater generation.
- The entire facility is within the boundaries of the landfill and is part of the overall landfill stormwater management plan.
- Excess water collected at the facility is routed to an onsite pump station and sent to Charlotte County's Landfill Leachate Treatment System.
- With impervious operating surfaces, as well as drainage/berms and wastewater control features, combined with routing wastewater to Landfill's Leachate Treatment, the Facility design is protective of water resources and the environment.



HOW DO WE MANUFACTURE CLASS AA COMPOST AT CCBRC?

- Turned windrow technique
- Mix biosolids with wood waste
- Turn 5 times in 15 days to meet “pasteurization” requirements (time/temp)
- Aged/cured for 3 months to ensure stability and maturity
- Screened to produce specific products



CLASSES AND TREATMENT OF BIOSOLIDS FOR USE IN FLORIDA

- Treatment is required to reduce or eliminate pathogens:
 - Class B treatment (significantly reduce pathogens)
 - Class A/AA treatment (eliminate pathogens)
 - A vector attraction reduction option/treatment process must be met (reduces attractiveness to insects, birds, rodents, etc.).
- There are three regulatory classes of biosolids for beneficial use based on treatment/quality:
 - Class B – minimum quality for beneficial use
 - Class A – intermediate quality for beneficial use
 - Class AA – highest quality for beneficial use
- Class AA biosolids distributed and marketed as fertilizers (due to their high level of treatment) are exempt from the nutrient restrictions for land applied biosolids.

What This Means...

- Composting organic materials such as biosolids and landscape waste is good for the environment if processed correctly.
- Recycling the City of Venice's Biosolids through the Class AA Compost Process is safe for the environment.



QUESTIONS?

THANK YOU

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