# Composting of Food Waste at Reunity Resources in Santa Fe

Information from Reunity website and from tour on November 5, 2018

#### **About Reunity Resources**

- 501(c)3 organization with a Zero Waste goal
  - Cofounder and Executive Director Tejinder Ciano
  - Cofounder and Outreach Coordinator Julianna Ciano
- Started in 2011, collecting restaurant cooking oil to convert to biofuel
  - Keeps 500 tons CO2 out of atmosphere every year
  - Keeps cooking oil out of waste water plant
  - Reduces fossil fuel use
- Began growing food on Santa Fe Community Farm to donate to local hunger relief organizations
  - >10,000 pounds of produce donated to local food banks in 2018

### **About Reunity Composting Program**

- Divert 1.4 million pounds of food waste from Santa Fe area landfill each year = 162,000 lb. CO2 reduction and methane reduction
- BPI-certified compostable plastics, paper bags, trays
- Aerated static pile composting facility that produces compost from
  - Food waste
  - Green waste
  - Manure
- Partner with 30 schools (50% of SF schools public, private, charter) and have trained staff and 8,250+ students about cafeteria compost separation
- Facilitate food waste collection from 35 Santa Fe area restaurants

## Implementing the Composting Program

- Initial setup cost: \$60,000
- Some work done by community groups and community service people
- Santa Fe City has been resistant to this change
- Must be prepared to offer the full system: equipment, schedule, training, and educational reminder materials
- Schools
  - Students initially more receptive than staff, and they inspired the staff
  - Reunity does a 3-day training program with students and staff
  - Results: Reducing trash by 1/3 saved enough money to make implementation of food collection cost neutral for schools
- Restaurants
  - Some had initial resistance to participation
  - Staff turnover and occasional non-compliance necessitate occasional retraining

## **Food Scraps Collection**

Photographs with permission of Reunity Resources

• 64-gallon roll carts

Collect 3 times/week, swapping empty cart for full cart

Cover immediately with mulch to prevent odors and

animal visits





### Composting

- 1 acre with 4-6 windrows
- Site is unlined, no leaching or runoff, acceptable to NMED
- Layer food waste, service ware, mulch, and manure
- Cap piles with finished compost –
  prevents odor and animal visits



#### **Aeration of Windrows**

- 6" septic field pipes with quarter-size holes run length of windrow
- Air pumped through with bouncy-house blowers
- Static piles, not turned, keeps in moisture, reduces particulates and odors
- Temperature 130-160 F
- Finished compost in 15-30 days





#### **Worm Composting**

- Worms compost finished compost from outside piles
- In heated greenhouse. Shallow circular trays, kept moist with drip irrigation



#### **Worm Composting**

Cylindrical turning separator recovers worms from compost



### **Worm Composting**

- Final vermicompost sold in bags or by the yard
- Also used in on-site community garden to produce
  >10,000 pounds of produce donated to local food banks

