



City of Austin Austin Resource Recovery Master Plan

Bob Gedert, Director

Austin Resource Recovery Department

Bob.Gedert@AustinTexas.gov



Public Planning Process

Zero Waste Strategic Plan adopted by Council January 2009



Zero Waste Services Plan Scoping Workshops August 2009



Workshop 1- Preliminary Research Report August 2010



Workshop 2 – Needs Assessment November 2010



Workshop 3 – Zero Waste Plan Elements March 2011



Solid Waste Services Department Master Plan Summer 2011

Components of the Austin Resource Recovery Master Plan:

Importance of the Austin Resource Recovery Master Plan

- Guiding principle for providing future services**
- On-going Community input and support**

Zero Waste Services Component

- Policies & Ordinances**
- New Diversion Programs**
- Infrastructure Development**

Operational Component

- Operational efficiencies**
- Inter-departmental infrastructure synergies**
- Long-term program commitments**

Austin Resource Recovery Master Plan: Contents

- Zero Waste
- Sustainability
- Waste Reduction
- Reuse
- Recycling
- Materials Management
- Composting Organics
- Household Hazardous Waste
- Disposal Management

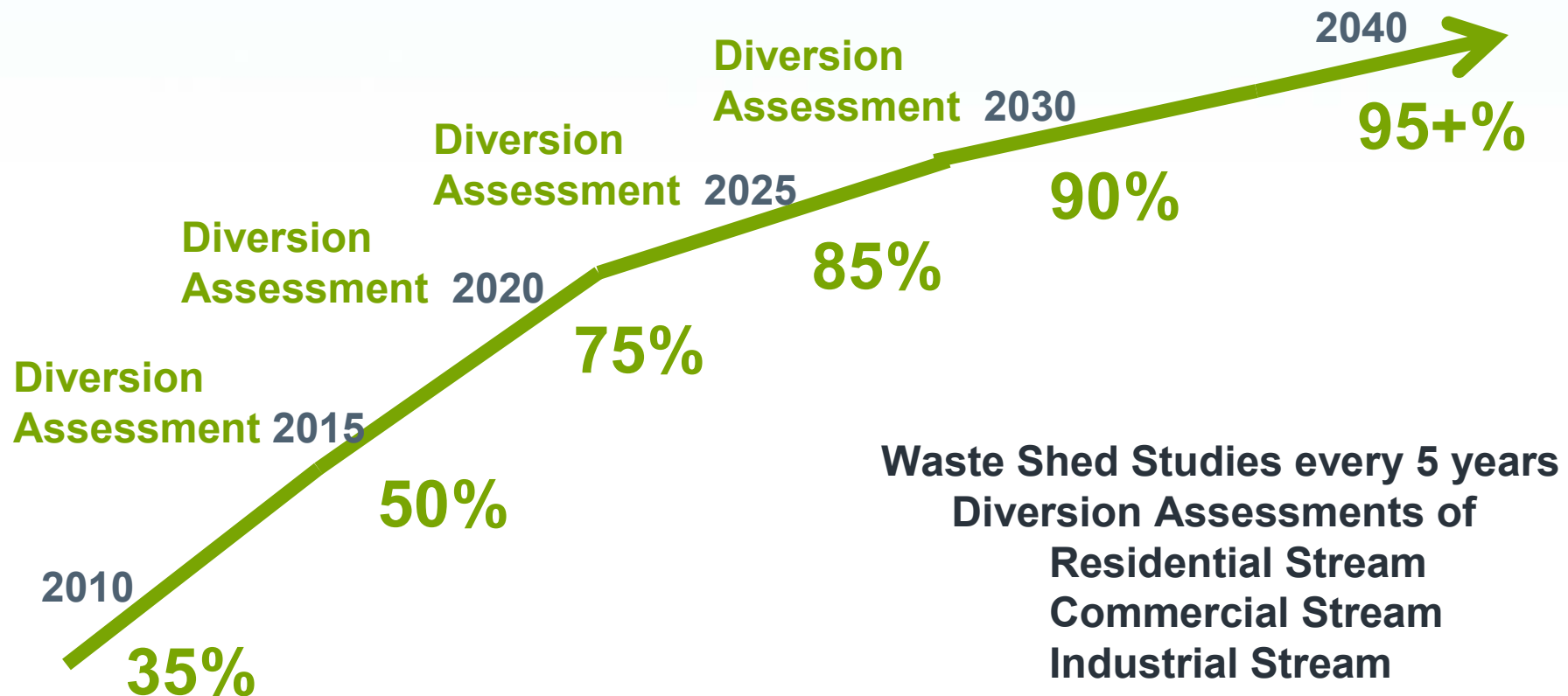


Austin Resource Recovery Master Plan: Contents

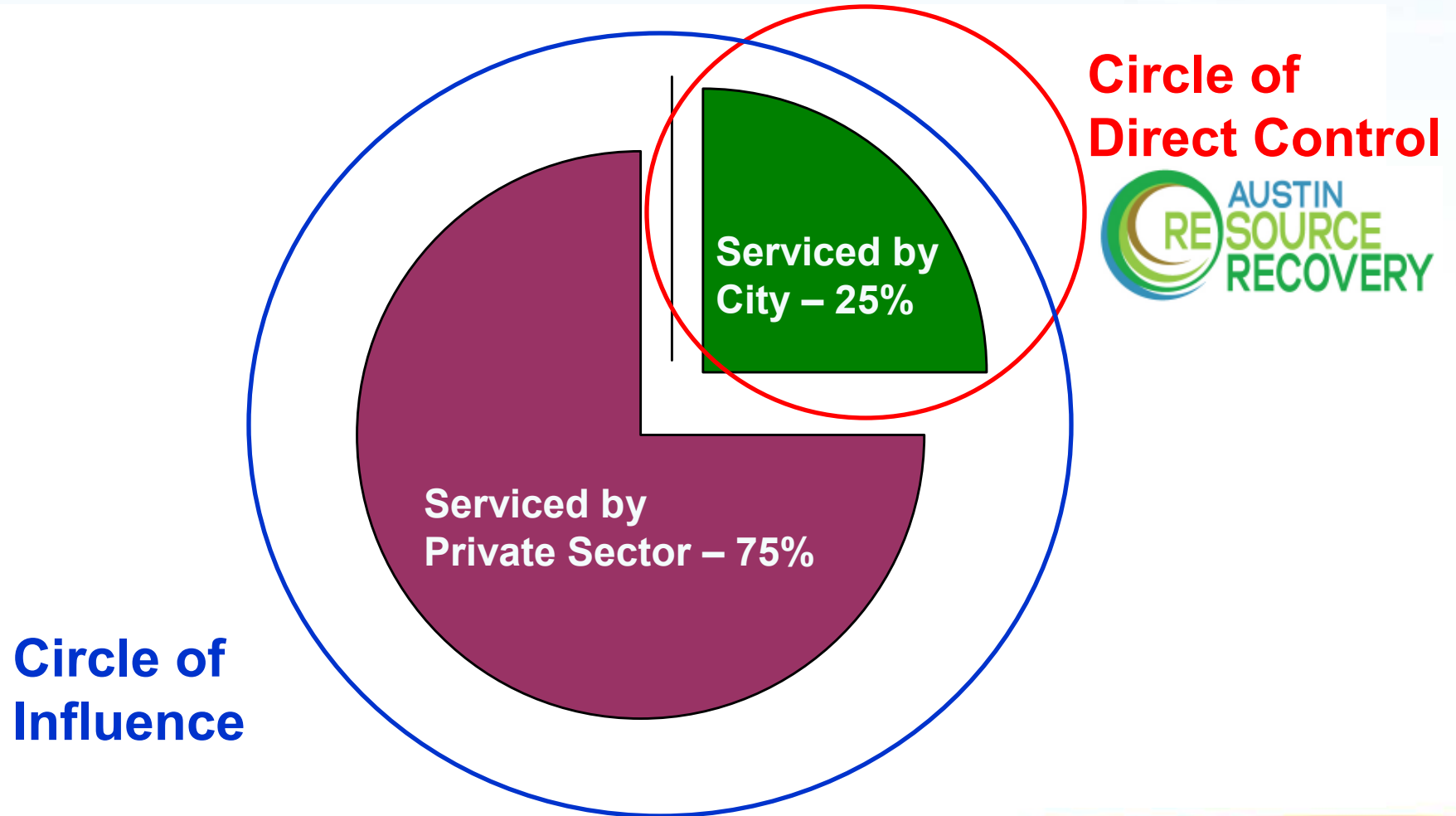
- Other Core Services
- Greening Special Events
- Recycling Economic Development
- Citizen and Community Partnerships
- Partnerships – Private & University
- City Departmental Support
- Pilots and Demonstration Projects
- Policies & Ordinances
- Metrics and Measurements
- Financial Models



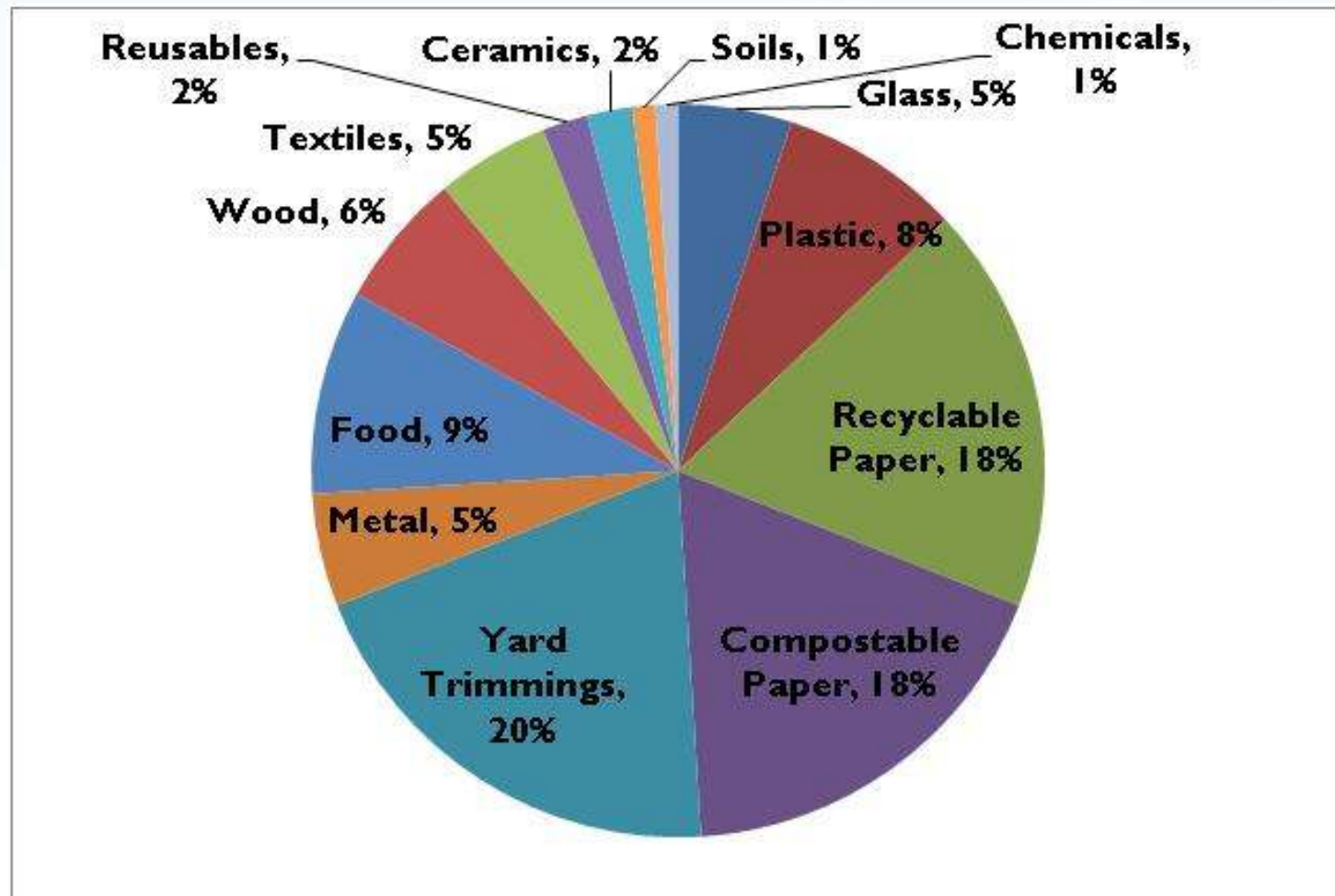
Austin Resource Recovery Master Plan: Zero Waste Diversion Goals



Austin Resource Recovery Master Plan: Distribution of Collection



Austin Resource Recovery Master Plan: Materials Management



Based on information from CAPCOG, Regional Solid Waste Management Plan 2002- 2022, February 9, 2005, pg. 10, and Austin Zero Waste Strategic Plan, December 4, 2008, pgs. 5-6 (partitioned "other" category into textiles, reusables, ceramics, soils & chemicals). Paper & Compostable Paper split into 2 separate categories

Austin Resource Recovery Department Master Plan

Sustainability

Zero Waste Synergy with Sustainability Efforts



- Waste Reduction Targets
- Green Purchasing
- Carbon Footprint Reduction
- Routing Efficiencies
- CNG and Alternative Fuels

Waste Reduction and Reuse

Reuse and Repair Businesses



- Teacher Resource Centers
- Reuse Austin: Bulk Collection
- Eco-Depots: Drop-off sites for reusables

Austin Resource Recovery Department Master Plan

Recycling

Single-Stream Recycling Collection



- Long-Term Processing Contracts
- Add materials to Single Stream Program
- Provide 96 gal and 64 gal blue containers
- Transition from biweekly to weekly (2016)

Organics

Single-Stream Organics Collection



- Residential Backyard Composting
- Collect yard trimmings in 96 & 64 gal carts
- Adding food scraps and compostable paper
- Compost Grade Classification System

Austin Resource Recovery Department Master Plan

Household Hazardous Waste



- Long-Term Processing Contracts
- Expanded Saturday and Daily Hours
- Battery Retail take-back program
- Enlarged door-to-door collection
- Pharmaceutical Take-back program
- North HHW Service Site

Disposal Management



- Post-Closure Care of FM812 Landfill
- Methane Gas Capture
- Solar Farm
- Eco-Industrial Park
- Disposal Capacity Needs - Landfill Contract
- Alternative Disposal Technologies

Austin Resource Recovery Department Master Plan

Other Core Services & Special Events



- Long-Term Processing Contracts
- Relocate the Resource Recovery Center to Transfer Facility
- *Reuse Austin*: Enhanced Bulk Collection / Reuse
- *Clean Austin*: Enhanced Brush Collection
- *Storm Ready Austin*: Storm Debris Mgmt
- Litter Abatement & Litter Prevention
- Downtown Alley Flushing
- Street and Boulevard Cleaning
- Dead Animal Collection
- Community Clean Ups with KAB
- City Sponsored Events Diversion Activities

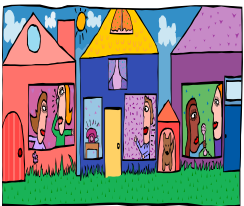
Austin Resource Recovery Department Master Plan

Recycling Economic Development



- Support Resource Recovery Small Businesses
- Support By-Product Synergies
- Business Waste Reduction Assistance Program
- Green Business Leaders Advisory Council
- Incentives to Attract Recycling Re-processors
- Eco-Industrial Park
- Brownfield Redevelopment Program

Partnerships



- Community & Non-Profit Partnerships
- Regional Cooperation & Inter-local Agreements
- Public / Private Partnerships
- Education Institution Partnerships
- Research and Development Program

Austin Resource Recovery Department Master Plan

Policies & Ordinances



- Support Resource Recovery Small Businesses
- Universal Recycling and Composting Ord.
 - Phase 1 multifamily complexes, offices
 - Phase 2 retail, restaurants and industrial
 - Phase 3 single family residential
- Green Event Recycling Ordinance
- Construction, Demolition, and Deconstruction
- Single Use Disposable Products / Packaging
- Refundable Deposit (Bottle Bill)

Incentives and Rewards

- Business Assistance and Recognition
- Composting & Events Rebate Programs
- Annual Going to Zero Awards Recognition
- Rate Structure Incentives

Austin Resource Recovery Master Plan: City Department Partnerships

- Austin Convention Center
- Austin Energy
- Austin Fire Department
- Austin Police Department
- Austin Water
- Aviation Department
- Communications and Technology Management
- Economic Growth and Redevelopment Services
- Fleet Services
- Government Relations Office



Austin Resource Recovery Master Plan: City Department Partnerships

- Health and Human Services Department
- Law Department
- Library Department
- Neighborhood Housing & Community Development Office
- Parks & Recreation Department
- Planning & Development Review Department
- Public Works Department
- Purchasing Office
- Transportation Department
- Watershed Protection



Austin Resource Recovery Master Plan: Residential Diversion Totals

Diversion Initiatives - CoA Controlled (tons)	FY09 (Base)	FY15	FY20	FY25	FY30
Total City-Hauled Diversion - Reuse, Recycling, Composting, HHW	110,975	200,000	330,000	412,250	477,000
Projected City-Hauled Waste Disposal	249,525	200,000	110,000	72,750	53,000
Projected City-Hauled Waste Generation	360,500	400,000	440,000	485,000	530,000
City-Hauled Diversion Rate	30.8%	50.0%	75.0%	85.0%	90.0%

Austin Resource Recovery Master Plan: Commercial Diversion Totals

Diversion Initiatives - Private Sector Controlled (tons)	FY09 (Base)	FY15	FY20	FY25	FY30
Total Private-Hauled Diversion - Reuse, Recycling, Composting, HHW	334,258	600,000	1,050,000	1,360,000	1,620,000
Projected Private-Hauled Waste Disposal	750,517	600,000	350,000	240,000	180,000
Projected Private-Hauled Waste Generation	1,084,775	1,200,000	1,400,000	1,600,000	1,800,000
Private-Hauled Diversion Rate	30.8%	50.0%	75.0%	85.0%	90.0%

Austin Resource Recovery Master Plan: City-wide Diversion Totals

Diversion Initiatives - City-wide Totals (tons)	FY09 (Base)	FY15	FY20	FY25	FY30
Projected Total Austin City-wide Diversion	445,233	800,000	1,380,000	1,772,250	2,097,000
Projected Total Austin City-wide Waste Disposal	1,000,042	800,000	460,000	312,750	233,000
Projected Total Austin City-wide Waste Generation	1,445,275	1,600,000	1,840,000	2,085,000	2,330,000
City-wide Diversion Rate	30.8%	50.0%	75.0%	85.0%	90.0%

Austin Resource Recovery Master Plan: Proposed New Diversion Programs

New Diversion Programs and Services	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
Reuse Austin – Eco-Depots & Teacher Resource Center	\$0	\$504,000	\$411,000	\$416,000	\$421,000	\$429,000	\$434,000	\$379,000
Recycling – Multi-Family expansion, glass collection, Resource Recovery Center, C&D Recycling, and pilots	\$415,000	561,000	582,000	528,000	\$486,000	\$495,000	\$506,000	\$490,000
Composting Organics – Food Waste Collection, Storm Ready Austin, & compost incentives	\$188,000	\$816,000	2,840,000	3,479,000	3,513,000	3,543,000	3,572,000	3,570,000
Household Hazardous Waste North Site	\$0	\$756,000	\$869,000	\$922,000	\$941,000	\$961,000	\$980,000	\$1,002,000
Landfill Management – Gas Recovery and Solar Energy	\$86,000	\$89,000	\$91,000	\$94,000	\$97,000	\$100,000	\$103,000	\$106,000
Special Events Diversion – new ordinances & services	\$67,000	\$69,000	\$71,000	\$73,000	\$75,000	\$78,000	\$80,000	\$82,000
Economic Development – Re-Made in Austin & Eco-Industrial Park & Brownfield Redevelopment	\$118,000	\$121,000	\$123,000	\$126,000	\$129,000	\$132,000	\$135,000	\$138,000
Communications – Public Education & Marketing	\$3,466,000	\$3,504,000	\$3,549,000	\$3,605,000	\$3,669,000	\$3,737,000	\$3,810,000	\$3,885,000
Total Added Program Expenses	\$4,340,000	\$6,420,000	\$8,536,000	\$9,243,000	\$9,331,000	\$9,475,000	\$9,620,000	\$9,652,000

Austin Resource Recovery Master Plan: Potential Cost Impacts by Goal Year

	FY12	FY15	FY20
Total New Diversion	5%	28%	44%
Total Existing Diversion	31%	31%	31%
Total Diversion	36%	50%	75%
Total New Annual Expenses	\$1,782,000	\$ 8,536,000	\$ 9,652,000
Less Disposal Reduced Expenses (saved by City)	\$ 817,000	\$ 2,364,000	\$ 4,210,000
Net New Annual Expenses	\$ 965,000	\$ 6,172,000	\$ 5,442,000

New expenditures partially off-set by reduced landfill disposal fees

Austin Resource Recovery Master Plan: Proposed New Rate Structure - Conceptual

Pay-As-You-Throw Pricing Structure

FY 13 Fee Calculations		Hypothetical Per Gallon Fee
Cart Size	Gal Rate	Monthly Rate
21	\$0.39 x 21 gallons	\$8.19
32	\$0.39 x 32 gallons	\$12.48
64	\$0.39 x 64 gallons	\$24.96
96	\$0.39 x 96 gallons	\$37.44

Gallon Rate charged on trash can size

Curbside Service includes trash, recycling, and organics collection



City of Austin
Austin Resource Recovery Department
Master Plan

www.AustinRecycles.com

Bob Gedert, Director

Austin Resource Recovery Department

Bob.Gedert@AustinTexas.gov

Feedback, Questions, & Answers