



# City of Austin Austin Resource Recovery Master Plan

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**Zero Waste Leadership**



# Austin Resource Recovery Master Plan

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**On the Path of Resource Recovery**

**On the Journey Toward Zero Waste**



# Austin Resource Recovery Master Plan

## Planning Process

- 3 Technical Development Reports
- 4 Public Workshops
- 5 Discussions with SWAC
- 6 Boards & Commissions
- 1<sup>st</sup> Draft released March 2011
- 2<sup>nd</sup> Draft released Sept. 2011
- 3<sup>rd</sup> Draft released Oct. 2011
- Council Presentation Nov. 3

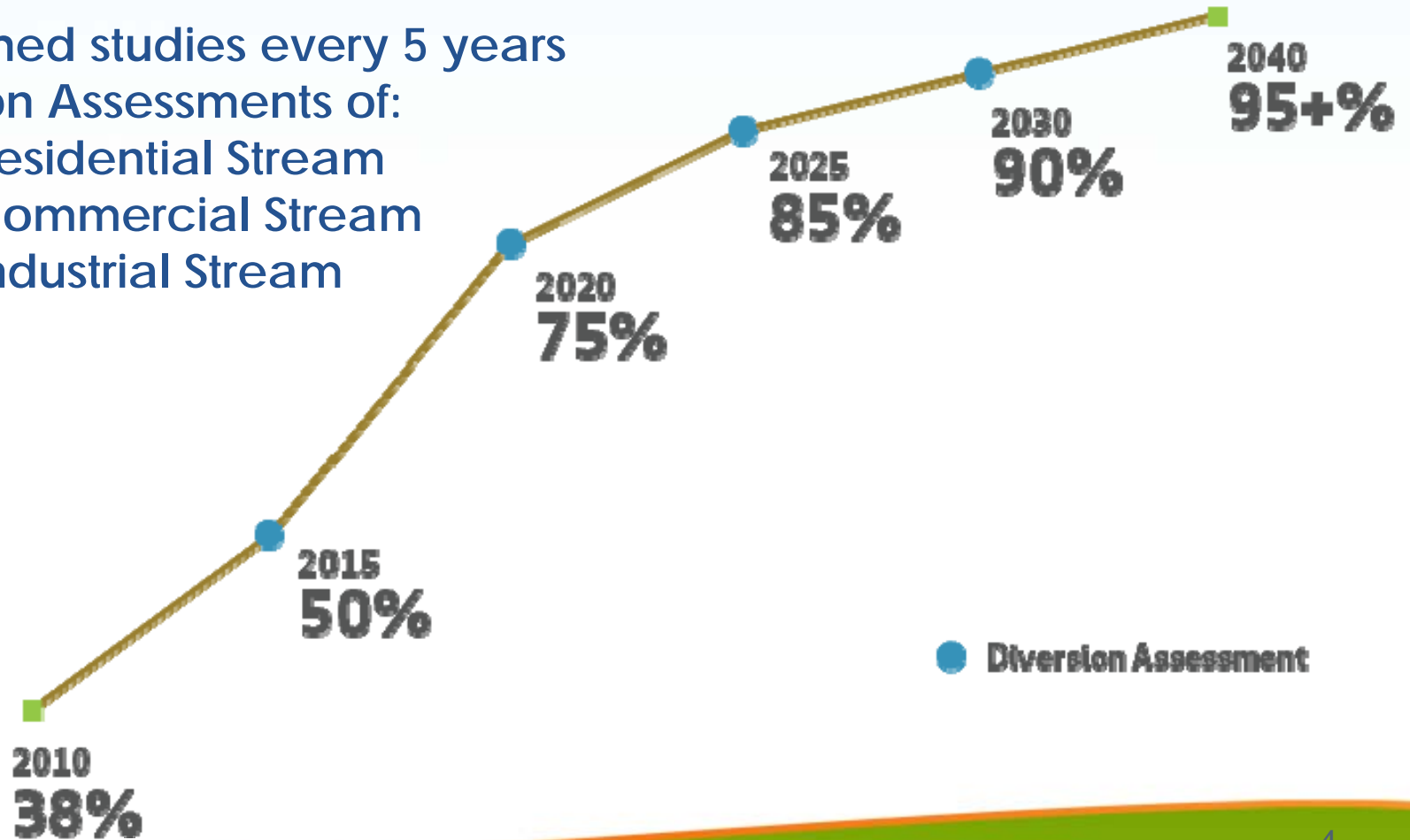
# Austin Resource Recovery Master Plan

## Zero Waste Diversion Goals

Wasteshed studies every 5 years

Diversion Assessments of:

- Residential Stream
- Commercial Stream
- Industrial Stream



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## Four Keystone Initiatives

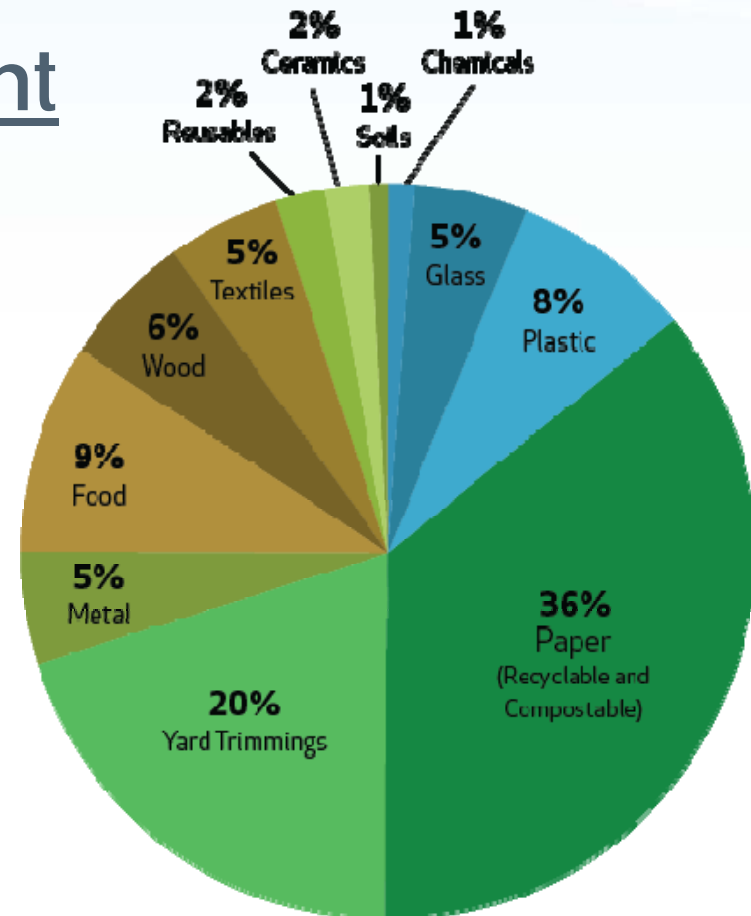
- Materials Management
- Expanded Recycling Opportunities
- Organics Collection & Composting
- Economic Development Growth

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## Keystone Initiative 1:

## Materials Management

- Reduce
- Reuse
- Repair
- Repurpose
- Redesign



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## Keystone Initiative 2:

### Expanded Recycling Opportunities

- Single-Stream Processing Contracts
- Added Materials Each Year
- Universal Recycling Ordinance
- Transition from Bi-Weekly to Weekly (2016)



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## Keystone Initiative 3:

### Organics Collection & Composting

- Residential Home Composting
- Single-Stream Organics Collection
- Add Food Scraps Collection (2015)
- Consumer Compost Classification





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## Keystone Initiative 4:

### Economic Development Growth

- Attract Recycling Remanufacturers
- Eco-Industrial Park
- Support By-Product Synergies
- Reuse / Repair Cottage Industries

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## Foundational Principles

- Operational Efficiencies
- Equity - Universal Policies/Ordinances
- Community Partnerships
- Continuous Improvement

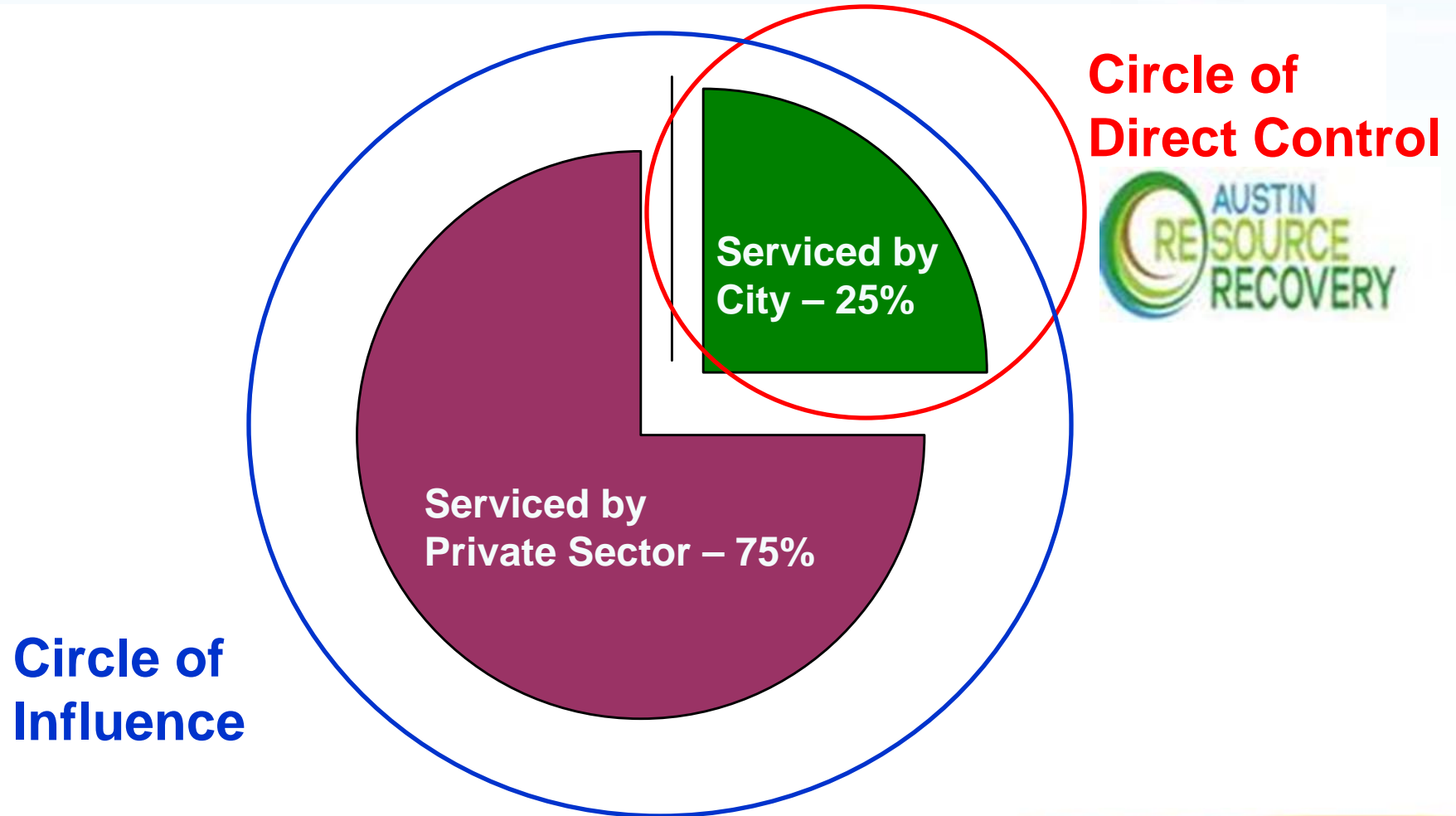
# Austin Resource Recovery Master Plan

## Metrics and Measurement

- Diversion Goals (50% by 2015)
- Benchmark Measurements (5 years)
- Customer Satisfaction (85% in 2011)
- Community Involvement



# Austin Resource Recovery Master Plan: Distribution of Collection



# Austin Resource Recovery Master Plan: Proposed New Diversion Programs

New Programs	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Reuse Center	\$0	\$504,000	\$417,000	\$416,000	\$421,000	\$429,000	\$434,000	\$479,000
Recycling	\$405,000	\$561,000	\$562,000	\$528,000	\$486,000	\$475,000	\$506,000	\$490,000
Composting Organic	\$100,000	\$200,000	\$2,548,000	\$3,479,000	\$1,571,000	\$3,543,000	\$2,572,000	\$2,570,000
Household Hazardous Waste - North Site	\$0	\$750,000	\$849,000	\$822,000	\$841,000	\$861,000	\$880,000	\$1,082,000
Landfill Management	\$85,000	\$80,000	\$81,000	\$84,000	\$87,000	\$88,000	\$92,000	\$95,000
Contract Management	\$47,000	\$49,000	\$71,000	\$71,000	\$75,000	\$78,000	\$80,000	\$82,000
Economic Development	\$100,000	\$121,000	\$121,000	\$126,000	\$127,000	\$132,000	\$135,000	\$138,000
Communications	\$3,495,000	\$3,534,000	\$1,549,000	\$1,805,000	\$1,888,000	\$3,715,000	\$1,810,000	\$1,895,000
<b>Total Added Program Expenses</b>	<b>\$4,340,000</b>	<b>\$6,420,000</b>	<b>\$8,536,00</b>	<b>\$9,243,000</b>	<b>\$9,331,000</b>	<b>\$9,475,000</b>	<b>\$9,620,000</b>	<b>\$9,652,000</b>

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

## Pay-As-You-Throw Pricing Structure Current FY12 Rates

Current Rates	FY12	FY 12 - Calculated as a Per Gallon Fee	
	Existing Rate		Existing Rate
Cart Size	(monthly rate)	Gal Rate	(per Gallon)
21	\$12.75	$\$12.75 / 21 \text{ gallons} =$	\$0.61
32	\$13.50	$\$13.50 / 32 \text{ gallons} =$	\$0.42
64	\$18.75	$\$18.75 / 64 \text{ gallons} =$	\$0.29
96	\$30.95	$\$30.95 / 96 \text{ gallons} =$	\$0.32

**Gallon Rate charged on trash can size – Bundled Rate for all services**  
**Curbside Service includes trash, recycling, and organics collection**

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

## 1<sup>st</sup> Rate Approach – for Discussion per gallon rate per trash cart size

Hypothetical #1	FY12	FY 13 - Hypothetical Per Gallon Fee	
	Existing Rate	Proposed Rate	Calculated
Cart Size	(per Gallon)	Gal Rate	Monthly Rate
21	\$0.61	\$0.39 x 21 gallons =	\$8.19
32	\$0.42	\$0.39 x 32 gallons =	\$12.48
64	\$0.29	\$0.39 x 64 gallons =	\$24.96
96	\$0.32	\$0.39 x 96 gallons =	\$37.44

**Gallon Rate charged on trash can size – Bundled Rate for all services**  
**Curbside Service includes trash, recycling, and organics collection**

# Austin Resource Recovery Master Plan: Proposed Fees to Support Programs

## Projected Rates through 2020 per gallon rate structure

Hypothetical #1	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
	Existing Rate	Projected Rates							
Cart Size	includes Base Rate	Calculated on Per Gallon Fee Structure							
21	\$0.61	\$0.39	\$0.43	\$0.46	\$0.49	\$0.51	\$0.53	\$0.56	\$0.58
32	\$0.42	\$0.39	\$0.43	\$0.46	\$0.49	\$0.51	\$0.53	\$0.56	\$0.58
64	\$0.29	\$0.39	\$0.43	\$0.46	\$0.49	\$0.51	\$0.53	\$0.56	\$0.58
96	\$0.32	\$0.39	\$0.43	\$0.46	\$0.49	\$0.51	\$0.53	\$0.56	\$0.58

(Anti-Litter Rates not included in this discussion)



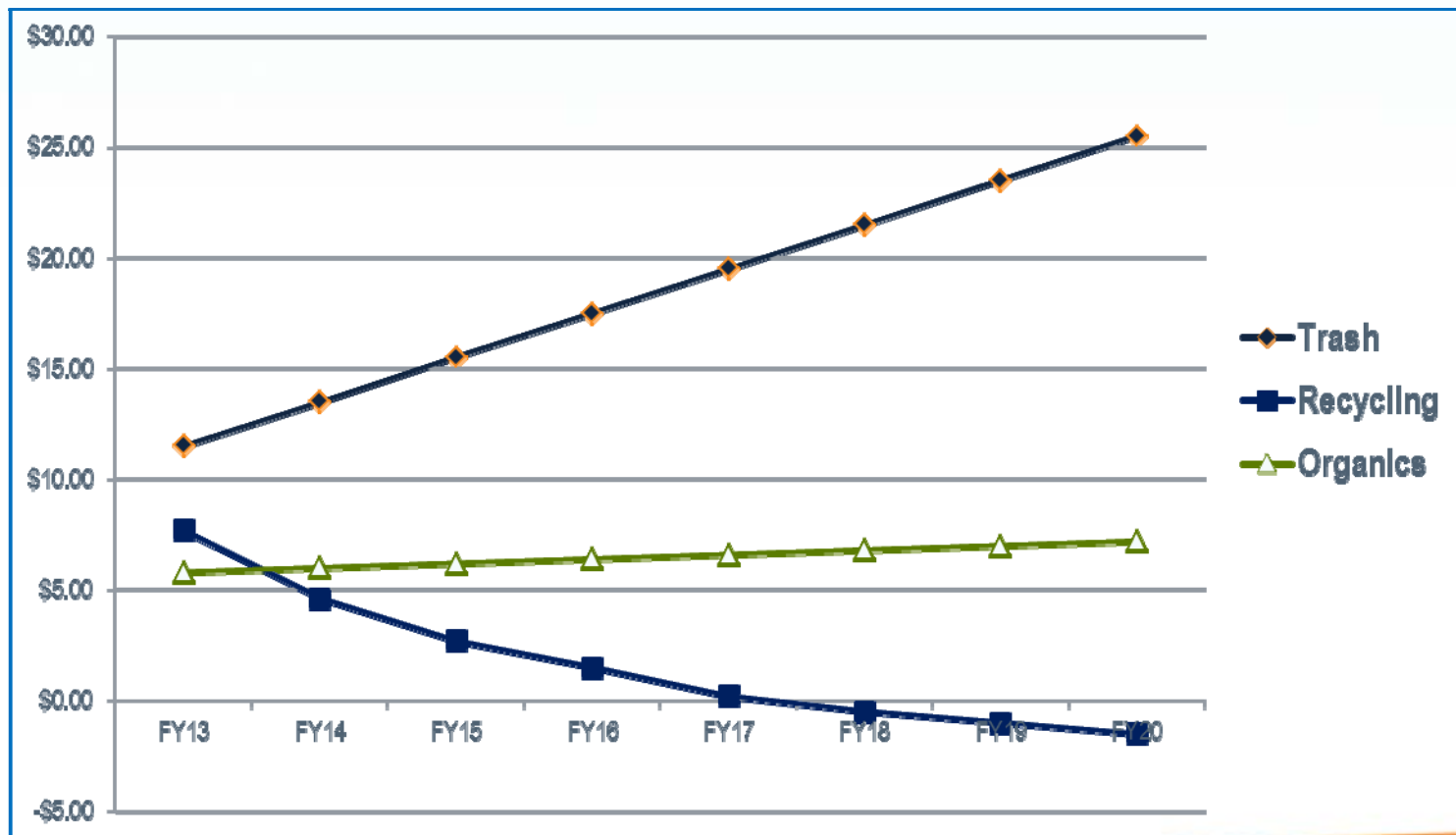
# Austin Resource Recovery Master Plan: Hypothetical Monthly Fees

## 2<sup>nd</sup> Rate Approach – for Discussion per gallon rate per cart

Hypothetical #2	Per Gallon Fee	Example A 21 – 64 – 64	Example B 32 – 64 – 64	Example C 64 – 96 – 96	Example D 96 – 96 – 96
Trash Collection	\$0.18 per gallon	\$3.78 21 Gal Trash cart	\$5.76 32 Gal Trash cart	\$11.52 64 Gal Trash cart	\$17.28 96 Gal Trash cart
Recycling Collection	\$0.08 per gallon	\$5.12 64 Gal Recycling cart	\$5.12 64 Gal Recycling cart	\$7.68 96 Gal Recycling cart	\$7.68 96 Gal Recycling cart
Organics Collection	\$0.06 per gallon	\$3.84 64 Gal Organics cart	\$3.84 64 Gal Organics cart	\$5.76 96 Gal Organics cart	\$5.76 96 Gal Organics cart
Total FY13 Gal Rate	0.32 per gallon	\$12.74 Monthly Rate	\$14.72 Monthly Rate	\$24.96 Monthly Rate	\$30.72 Monthly Rate

# Austin Resource Recovery Master Plan: Monthly Rate Trending

## Hypothetical Rate #2 per gallon rate per cart



# Austin Resource Recovery Master Plan: Residential Diversion Totals

Diversion Initiatives - CoA Controlled (tons)	FY10 (Base)	FY15	FY20	FY25	FY30
<b>Total Residential Diversion - Reuse, Recycling, Composting</b>	<b>82,611</b>	<b>125,000</b>	<b>206,250</b>	<b>255,000</b>	<b>292,500</b>
<b>Residential Waste Disposal</b>	<b>138,757</b>	<b>125,000</b>	<b>68,750</b>	<b>45,000</b>	<b>32,500</b>
Residential Waste Generation (with population growth)	221,368	250,000	275,000	300,000	325,000
Residential Diversion Rate	37.32%	50.00%	75.00%	85.00%	90.00%

Page 16





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