

To: Zero Waste Advisory Commission

From: Bob Gedert, Director

Austin Resource Recovery Department

Date: April 9, 2014

Subject: Director's Report

REUSE DEFINITION

Reuse means using a discarded item for the same or similar function while preserving the embodied energy of its original form. The City's Highest and Best Use Hierarchy, adopted as part of the Strategic Plan, lists reuse near the top of the hierarchy, directly after redesign and reduce, and before recycling.

Strategies the Department will explore and implement to support reuse include:

- Salvaging reusable items from the Department's bulk collection program prior to landfilling
- Encouraging and facilitating the growth and development of repair and reuse businesses and nonprofits, including:
 - o Consignment stores, thrift shops and charitable drop-off centers
 - Building materials reuse centers and tool lending libraries
 - Used equipment stores and salvage yards
 - Repair, refurbishing and remanufacturing firms
 - o Creative reuse centers and artists in residence programs
 - Local and regional online material exchanges
- Providing additional opportunities for reuse through the new reuse collection sites
- Promoting the use of durable, reusable products

Reuse is an important component in the City's Zero Waste strategy.

Source: Austin Resource Recovery Master Plan, excerpts from Chapter 7

BENEFICIAL REUSE DEFINITION

ARR is focused on sustainable materials management, and helping divert materials to highest and best use, while understanding economic and technical challenges that face some materials. While the highest and best use of materials is desirable in all material categories, there are realities in the marketplace that require Austin to consider alternative markets for materials that provide a better economic outcome, but still manage the materials as a resource. Some of the markets fall into a category referred to as "beneficial reuse".

The state of Texas provides guidance on defining "beneficial reuse". Within the state's definition, there is more clarification required to articulate what products and processes qualify as beneficial reuse in a Zero Waste community that follows the Zero Waste International Alliance definition for diversion, which does not count non-valuable markets as legitimate diversion.

Beneficial reuse is: When a recyclable material can be processed in a manner that segregates a commodity (glass, plastic, gypsum wallboard, etc.), incorporates some processing of that material (grinding, screening, crushing, etc.), that allows the material to meet a specification as a raw material or a product that will substitute for a virgin material.

Examples of legitimate beneficial reuse include:

- Processing, cleaning, screening and size reducing glass to meet a specification for aggregates or sands in civil engineering applications such as pipe bedding, roads (in hot-mix base, binder or surface layers), mechanically stabilized earth, as landscape medium, etc. that meet Austin Department of Public Works specifications for these types of improvements.
- Processing, cleaning, screening and size reducing concrete to meet a specific specification for stone or aggregates, such as in Recycled Asphalt Pavement or other civil engineering applications, such as sidewalks, roads, parking lots, etc., that meet Austin Department of Public Works specifications for these types of improvements.
- Processing, cleaning, screening and size reducing scrap tires to utilize as playground mulch, in rubber-modified asphalt in roads (in hot-mix base, binder and surface layers), in septic fields or other drainage applications, etc.
- Processing, cleaning and pulverizing gypsum wallboard to land-apply as a soil amendment.

Definitions from Texas State solid waste rules to support beneficial reuse activities:

- (122) Recyclable material--A material that has been recovered or diverted from the
 nonhazardous waste stream for purposes of reuse, recycling, or reclamation, a substantial
 portion of which is consistently used in the manufacture of products that may otherwise be
 produced using raw or virgin materials. Recyclable material is not solid waste. However,
 recyclable material may become solid waste at such time, if any, as it is abandoned or disposed
 of rather than recycled, whereupon it will be solid waste with respect only to the party actually
 abandoning or disposing of the material.
- (4) Processed for recycling or processing for beneficial use--Material has been or is processed for recycling, or undergoes processing for beneficial reuse, if it has been subjected to activities including extraction or separation of component materials (such as the separation of commingled recyclable materials), cleaning, grinding, or other preparation at a recycling facility to make it amenable for subsequent recycling or beneficial reuse.
- (8) Beneficial reuse--Any agricultural, horticultural, reclamation, or similar use of compost as a soil amendment, mulch, or component of a medium for plant growth, when used in accordance with generally accepted practice and where applicable is in compliance with the final product standards established by this chapter. Simply offering a product for use does not constitute beneficial reuse. Beneficial reuse does not include placement in a disposal facility, use as daily cover in a disposal facility, or utilization for energy recovery.
- (48) Recyclable material--For purposes of this chapter, a recyclable material is a material that has been recovered or diverted from the solid waste stream for purposes of reuse, recycling, or reclamation, a substantial portion of which is consistently used in the manufacture of products which may otherwise be produced from raw or virgin materials. Recyclable material is not solid waste unless the material is deemed to be hazardous solid waste by the administrator of the United States Environmental Protection Agency, whereupon it shall be regulated accordingly unless it is otherwise exempted in whole or in part from regulation under the federal Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Protection Act. If,

however, recyclable materials may become solid waste at such time, if any, as it is abandoned or disposed of rather than recycled, whereupon it will be solid waste with respect only to the party actually abandoning or disposing of the material.

RECENT COUNCIL ACTIONS

February 27th Council Meeting – City Council authorized execution of an emergency contract with BFI Waste Services of Texas, for emergency roll-off refuse container services in support of flood cleanup efforts in the Onion Creek area in an amount not to exceed \$75,768. Zero Waste Advisory Commission recommended for Council approval at the February ZWAC meeting.

Staff Hires and Promotion Updates

New employee Promotion		Notes: Title/ Division				
Thomas Fulmer		Financial Manager				
Jerry Leyendecker		Temporary Associate				
Richard Willis		Temporary Associate				
Peter Decesare		Equipment Technician I				
Tracey Jackson		Austin Resource Recovery Operator				
Kristina Newman		Environmental Program Tech				
Madelyn Morgan		Intern				
Monica Edell		Intern				
Sarah Puffer		Intern				
Titus Alexander		Temporary Associate				
Michael Morales		Temporary Associate				
Jocabed Gutierrez		Administrative Specialist				
Timmothy Hill		Technical Trainer				
Adam Arriaga		Utility Account Specialist				
Amanda Noble		Temporary Human Resources Assistant				
Stephanie Rodriguez		Temporary Human Resources Assistant				
Damien Bailey-Harris		Austin Resource Recovery Operator				
	Kenneth Hicks	Environmental Program Tech				
	Victoria Sanchez	Accounting Associate				
	Jason McCombs	Planner Senior				
	William White	Austin Resource Recovery Operator Specialist Senior				
	David Black	Austin Resource Recovery Operator Specialist Senior				
	Gregory Mitchell	Austin Resource Recovery Operator Specialist Senior				
	Robert Williams	Austin Resource Recovery Crew Leader				

Zero Waste Advisory Commission - April 9, 2014 Single Stream Recycling Statistical Report

FY 2013-14: October, 2013 - February, 2014

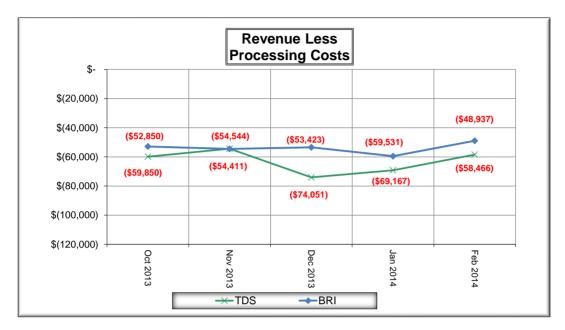
Texas Disposal Systems (TDS) and Balcones Resources, Inc. (BRI)

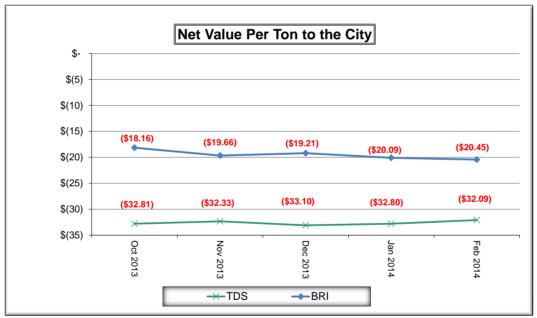
Month and	Contractor	Tons Delivered	Contractor Payments			Net Value to the City		
Year			Revenue	Processing Cost	Net Amount Due/(Owed)	\$ per ton value	Cost Per Ton	Total
October	TDS	1,824.24	\$108,623	\$168,473	(\$59,850)	(\$32.81)	\$21.01	\$38,327
2013	BRI	2,910.84	\$177,974	\$230,825	(\$52,850)	(\$18.16)	\$21.01	\$61,157
	Total	4,735.08	\$286,598	\$399,298	(\$112,701)	(4 7	, , , , , , , , , , , , , , , , , , ,	\$99,484
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November	TDS	1,682.84	\$99,569	\$153,980	(\$54,411)	(\$32.33)	\$21.01	\$35,356
2013	BRI	2,775.04	\$165,885	\$220,429	(\$54,544)	(\$19.66)	\$21.01	\$58,304
	Total	4,457.88	\$265,454	\$374,409	(\$108,955)			\$93,660
December	TDS	2,237.24	\$130,657	\$204,707	(\$74,051)	(\$33.10)		\$47,004
2013	BRI	2,781.35	\$167,489	\$220,913	(\$53,423)	(\$19.21)	\$21.01	\$58,436
	Total	5,018.59	\$298,146	\$425,620	(\$127,474)			\$105,441
January	TDS	2,108.75	\$123,783	\$192,951	(\$69,167)	(\$32.80)	\$21.01	\$44,305
2014	BRI	2,963.60	\$175,333	\$234,864	(\$59,531)	(\$20.09)	\$21.01	\$62,265
	Total	5,072.35	\$299,116	\$427,814	(\$128,698)	· · · · · · · · · · · · · · · · · · ·		\$106,570
February	TDS	1,821.99	\$108,246	\$166,712	(\$58,466)	(\$32.09)	\$21.01	\$38,280
2014	BRI	2,392.85	\$142,235	\$191,172	(\$48,937)	(\$20.45)	\$21.01	\$50,274
	Total	4,214.84	\$250,482	\$357,884	(\$107,403)			\$88,554
FY	2013-14 Totals	23,499	\$1,399,795	\$1,985,026	(\$585,231)			\$493,709

Material Composition Percentages								
	Previou	ıs Audit	Current Audit					
	TDS	TDS BRI		BRI				
Material	4/13/13	4/27/13	10/19/13	11/16/13				
ONP #8 (Old Newspaper)	16.14%	25.97%	17.56%	23.88%				
OCC (Corrugated Cardboard)	8.42%	12.14%	13.49%	10.99%				
Mixed Paper	20.17%	9.73%	15.59%	13.51%				
Plastic Bottles - PETE	2.71%	3.21%	3.00%	3.25%				
HDPE Natural	1.00%	0.62%	1.07%	0.83%				
HDPE Color	0.83%	0.75%	0.94%	0.79%				
Mixed Plastics 3-7	3.73%	1.85%	3.77%	2.16%				
UBC (Used Beverage Cans)	1.21%	1.33%	1.21%	1.08%				
Tin Cans	1.94%	1.86%	1.63%	1.37%				
Scrap Metal	0.89%	0.72%	0.87%	0.70%				
Glass	27.04%	27.99%	28.76%	28.89%				
Residual - trash	15.92%	13.83%	12.11%	12.55%				
Total	100.00%	100.00%	100.00%	100.00%				

Zero Waste Advisory Commission - Febuary 12, 2014 Single Stream Recycling Statistical Report FY 2013-14: October - December, 2013

Texas Disposal Systems (TDS) and Balcones Resources, Inc. (BRI)





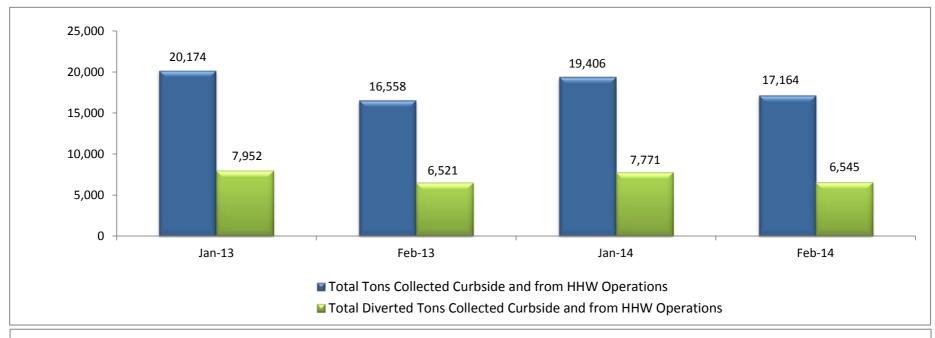
Austin Resource Recovery Curbside Collection and HHW Operations

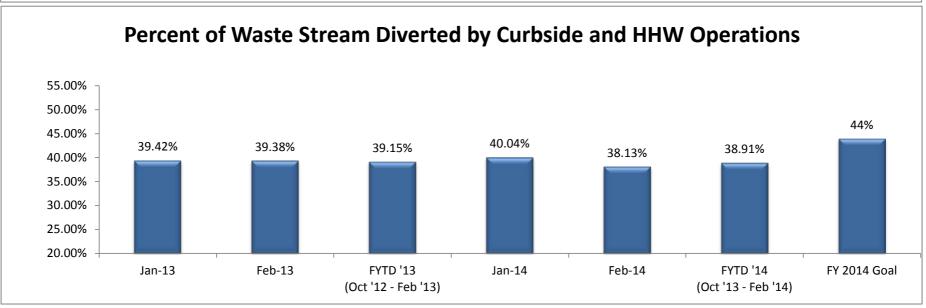
LAST FISCAL YEAR

CURRENT FISCAL YEAR

	_	LAST FISCAL YEAR		CURRENT FISCAL YEAR						
		FY 2013	FY 2013 Goal	Jan-13	Feb-13	FYTD '13 (Oct '12 - Feb '13)	Jan-14	Feb-14	FYTD '14 (Oct '13 - Feb '14)	FY 2014 Goal
pe	Tons of curbside Garbage	124,183	127,000	11,526	9,193	51,896	11,076	9,571	51,466	123,000
)SO	Tons of Curbside Bulk Disposed	8,500	6,600	672	814	3,165	525	1,025	3,561	7,000
Disposed	HHW Operations Tons Disposed	381	400	23	30	135	34	23	157	390
Tons [Total Disposed Tons Collected Curbside and from HHW Operations	133,064	134,000	12,221	10,037	55,196	11,635	10,619	55,184	130,390
	Tons of curbside recycling	53,702	62,500	5,045	3,936	22,577	4,998	4,182	23,278	64,000
9	HHW Operations Tons recycled/reused	240	150	15	18	80	13	17	101	150
Diverted	Tons of Curbside Yard Trimmings	25,898	27,000	2,437	2,037	9,996	2,426	1,779	9,251	31,000
Οįς	Tons of Curbside Bulk Recycled	181	800	18	12	78	14	19	76	783
Tons	Tons of Curbside Brush Collected	7,359	6,400	437	518	2,782	320	548	2,436	6,200
To	Total Diverted Tons Collected Curbside and from HHW Operations	87,380	96,850	7,952	6,521	35,513	7,771	6,545	35,142	102,133
	Total Tons Collected Curbside and from HHW Operations	220,444	230,850	20,174	16,558	90,709	19,406	17,164	90,326	232,523
Percent of Waste Stream Diverted by Curbside and HHW Operations		39.64%	42%	39.42%	39.38%	39.15%	40.04%	38.13%	38.91%	44%
	Pounds of Garbage collected per customer per									
	pickup	25.53	26.03	28.52	22.87	n/a	27.14	23.48	n/a	24.64
-	pickup	20.00	20.03	20.32	22.01	II/a	21.14	23.40	11/a	24.04
	Number of Garbage customers	407.405	407.070	400.005	405.000	/-	400 400	400.040	/-	400.000
-		187,105	187,676	186,665	185,626	n/a	188,490	188,240	n/a	192,000
	Pounds of Recycled materials collected per									
	customer per pickup (every other week)	22.25	25.62	25.16	19.74	n/a	24.82	20.80	n/a	25.64
	Pounds of Yard Trimmings collected per									
	customer per week	5.37	5.53	6.08	3.77	n/a	6.02	4.42	n/a	6.21
Νι	umber of Recycling and Yard Trimmings customers	185,658	187,676	185,224	184,205	n/a	186,029	185,733	n/a	192,000

Austin Resource Recovery Curbside Collection and HHW Operations





Austin Resource Recovery Curbside Collection and HHW Operations

Reporting Status and Diversion Results for All Categories of Waste Generation								
Category of Waste Generation	FY2009-10	FY2010-11	FY2011-12	FY2012-13	FY2013-14	FY2013-14		
Category of waste deficiation	actual	actual	actual	actual	goal	current		
Residential Waste Diversion	37.32%	38.57%	37.86%	39.64%	44.00%	38.91%		
(city serviced accounts)	37.32%							
Commercial / Industrial Waste Diversion	information not available*							
Institutional Waste Diversion	information not available*							
	*Non-residential waste diversion to be inventoried in 2015							

