



**ZWAC
Construction &
Demolition
Recycling
Committee
Aug. 30, 2016**

AGENDA

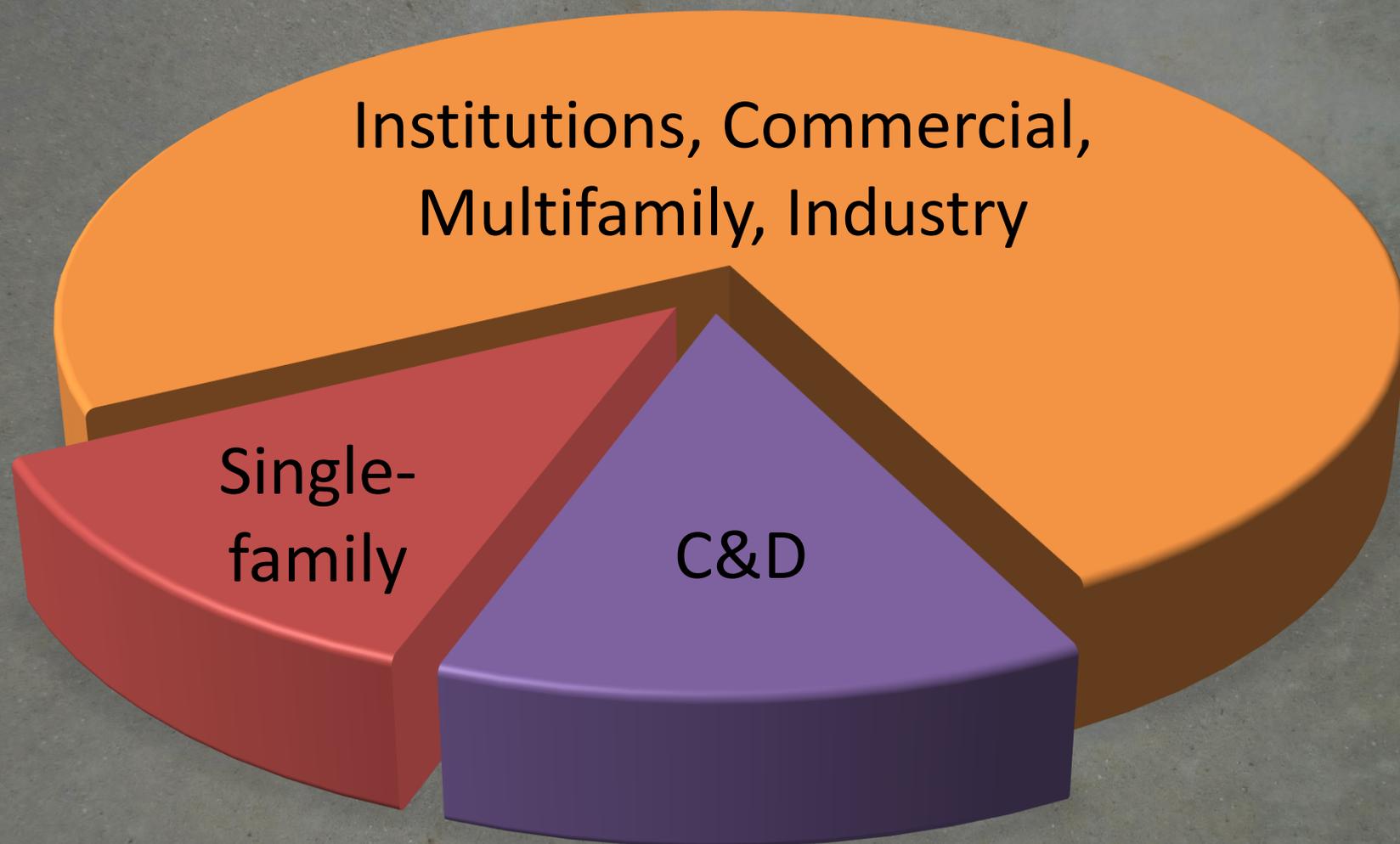
1. Call to Order
 - a. Introductions
 - b. Meeting process
2. Citizen Communication
3. New Business
 - a. Committee Structure
 - b. Expectations, goals, priorities
 - c. C&D Recycling Ordinance Implementation

Outline

- Ordinance Development
- Ordinance Requirements
- Ordinance Implementation



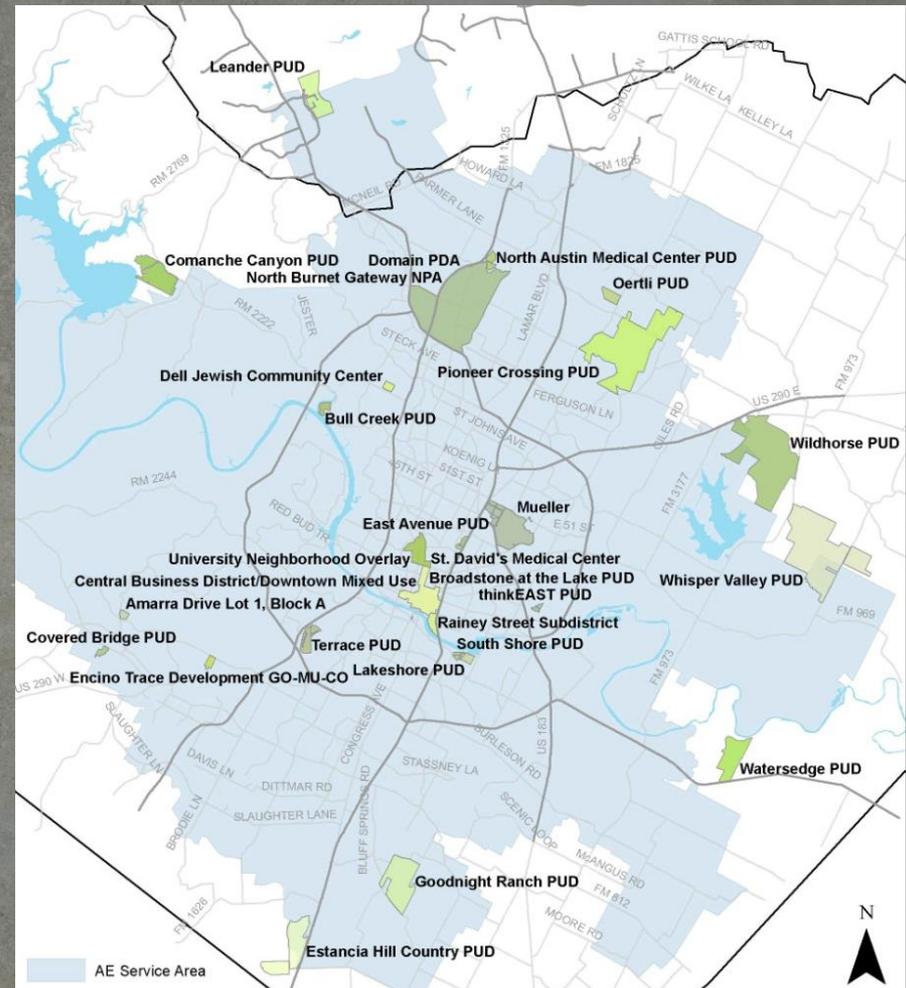
Waste generation



Austin Energy Green Building Construction Waste Management



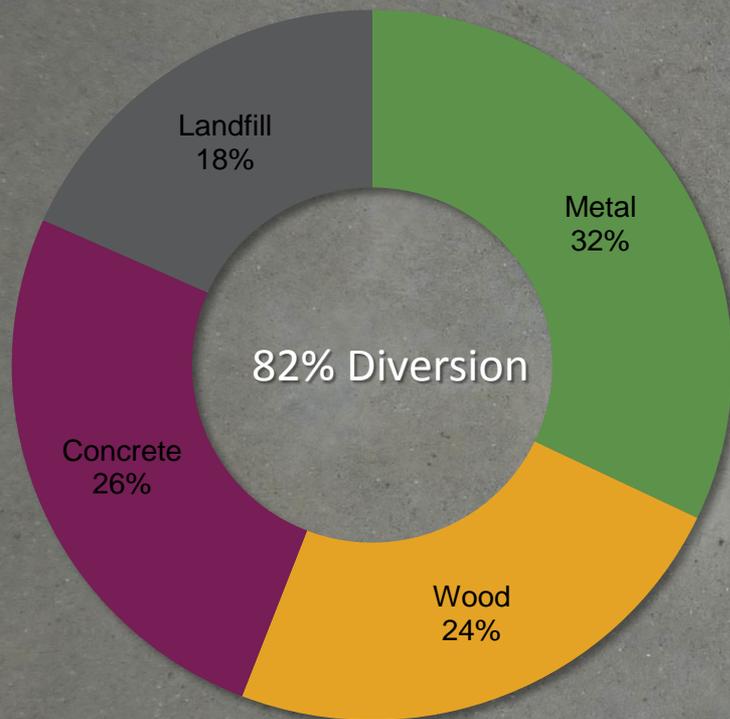
- 1995 AEGB checklist
 - prescriptive & voluntary
- 2003 Commercial Rating
 - Required downtown
 - Basic Requirement: 50%
- 2007 Multifamily Rating
 - Basic Requirement: 50%



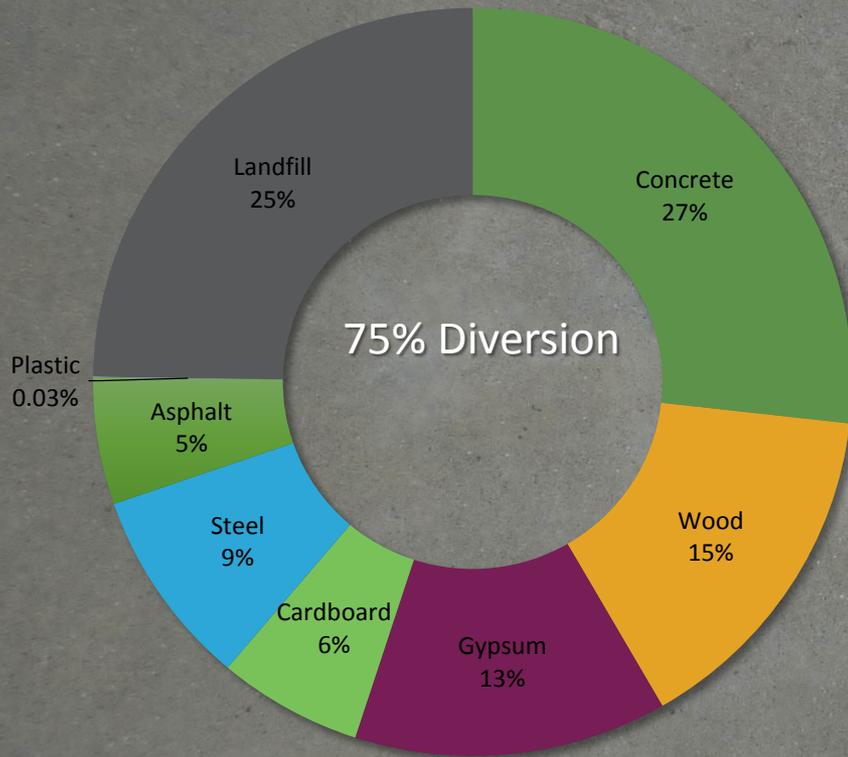
Material handling evolved from Source separation to Commingled



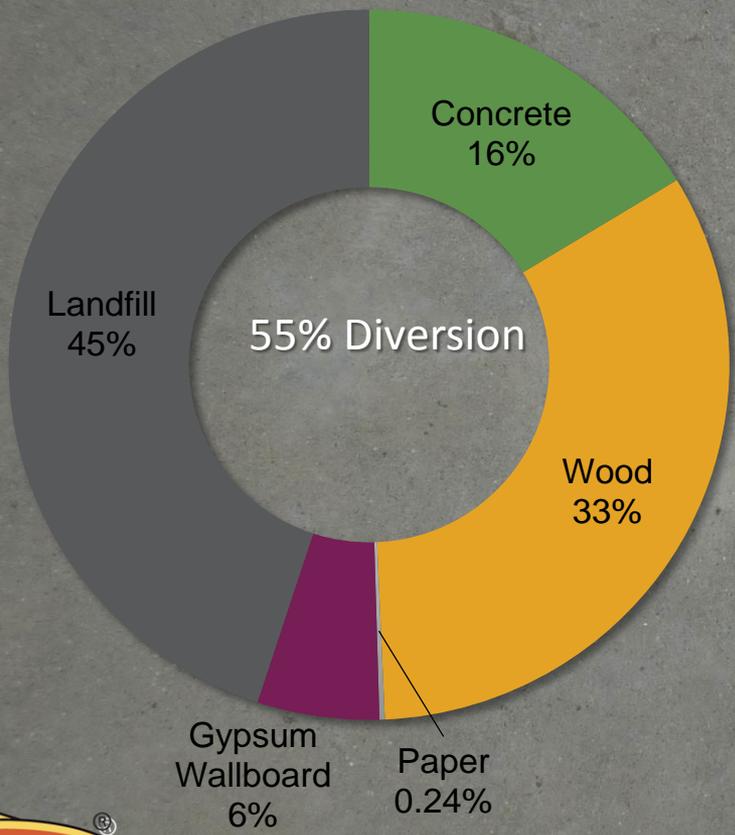
AEGB Case Study: Starbucks – Mueller



AEGB Case Study: The W Hotel & Residences



AEGB Case Study: Mosaic Apartments - Mueller



C&D Ordinance Development

Public Input

- 2009 – 2011: C&D forums & tours
- 2010 – Council resolution proposing ordinance
- 2011 – Council adoption of ARR Master Plan
- 8 meetings of ZWAC & C&D Recycling Committee
- 2014 – Council resolution adopting concept
- 8 Commission meetings:
 - Planning Commission
 - Environmental Commission
 - Zero Waste Advisory Commission
- 11/19/2015: Council adopted Ordinance



C&D Ordinance Development

Stakeholders

- Licensed haulers
- Material processors
- Landfill operators
- Waste consultants
- Historic preservation
- Home builders
- General contractors
- Demolition contractors
- Deconstruction
- Building owners
- Building managers
- Architects
- Public

C&D Ordinance Development

City Departments

- Austin Energy Green Building Program
- Development Services Department
- Austin Code Department
- Austin Economic Development
- Austin Resource Recovery
- Law Department
- Neighborhood Housing and Community Development
- Office of Sustainability
- Public Works Department
- Watershed Protection Department

C&D Ordinance R&D

Generation rates per floor area: 5 to 150 lbs/sf

Project Type	Commercial	Residential
New	Low	Lowest
Remodeling	Medium	Medium
Demolition	Highest	High

C&D Ordinance R&D

Est. annual tons in Austin for each project type

Project Type	Commercial	Residential
New	44,000	17,000
Remodeling	134,000	10,000
Demolition	30,000	24,000
TOTAL	260,000 tons/yr	

C&D Ordinance R&D

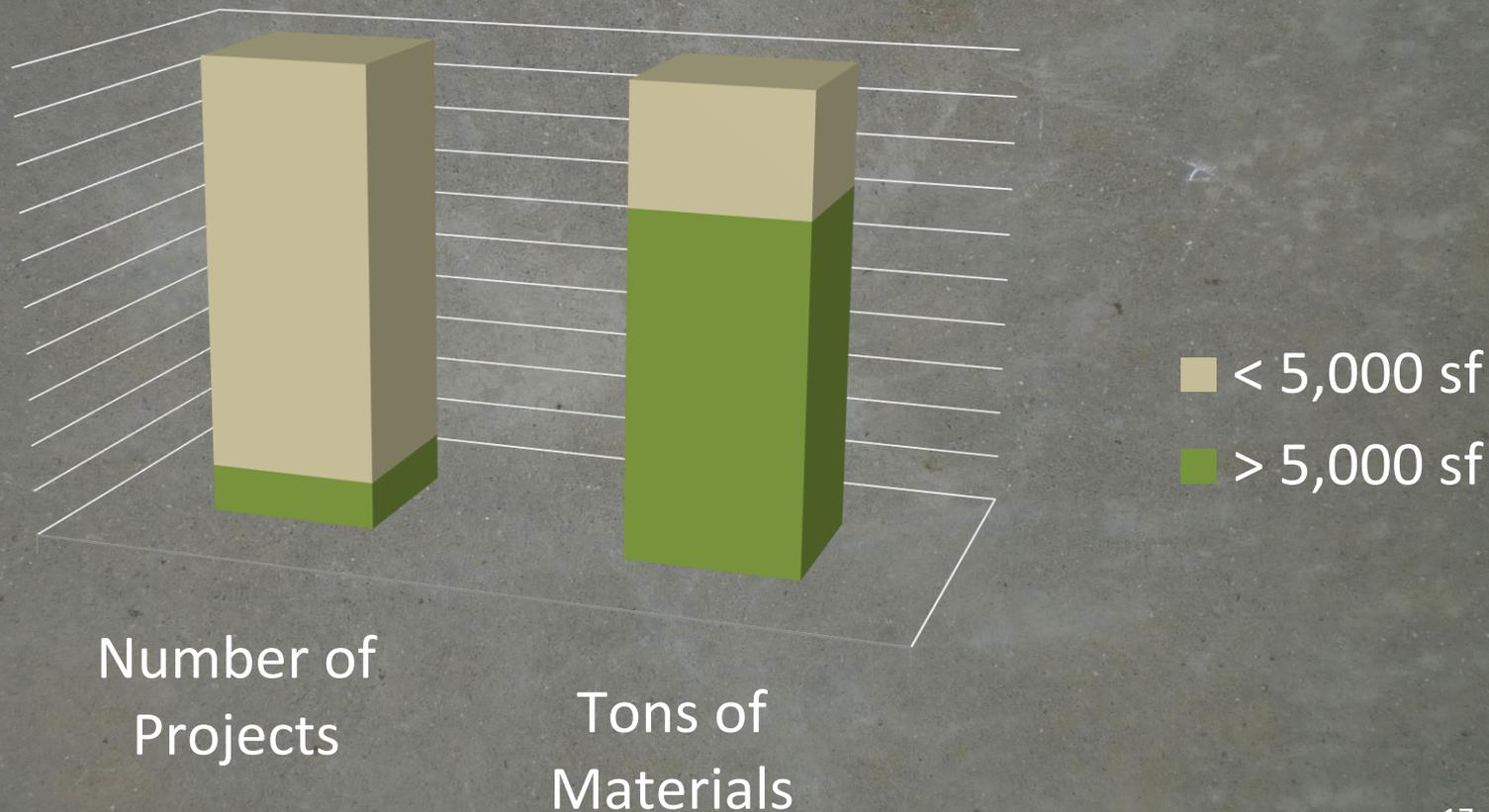
Est. annual number of projects by type

Project Type	Commercial	Residential
New	1,000	3,400
Remodeling	4,100	6,100
Demolition	150	550
TOTAL	15,300 projects/yr	

C&D Ordinance R&D

Trade-off

Impact by Project Size



C&D Recycling Ordinance

Affected Projects:

- > 10/1/16: > 5,000 sq ft of new or remodeled floor area
- > 10/1/19: Commercial demolition projects

Diversion requirement, either:

- Divert \geq 50%, or
- Dispose \leq 2.5 lbs / sq ft

Waiver Request: if materials are non-recyclable

Contractors' C&D Recycling Report

Penalty – Class C Misdemeanor

Ordinance Features



- Studies by 2020 & 2030:
 - Impact on Household Affordability
 - C&D material market assessment
- Qualified Processors



Qualified Processors

- Commingled C&D processors
- Optional
- 3rd-party verified facility diversion rate
- Simpler processing and reporting

Contractor Reporting Requirement

Contractors' C&D Recycling Report

- Due at Final Inspection
- Online Report includes:
 - Contractor & Owner contact Info
 - Building permit numbers, floor areas, address
 - Tons diverted or landfilled & backup
 - Waiver Request, if necessary



CONSTRUCTION AND DEMOLITION WASTE CALCULATOR

MATERIALS AND RESOURCES

PROJECT NAME: Sample Project

REQUIREMENTS

Recycle and/or salvage at least 50%, by weight, of non-hazardous construction and demolition waste, including excavated soil, stone, and land clearance debris. Recycled material must include at least four material streams (i.e., concrete, metal, wood, gypsum wallboard, paper and cardboard, plastics). One point is achieved if the diversion percentage is at least 50%. Final measure achievement is determined by AEDB review.

INSTRUCTIONS

- In the Recycled Material Types table to the right, identify the maximum four material streams to be diverted from landfill associated with construction and/or demolition of the project. Also identify any additional material streams diverted from landfill during construction and/or demolition. Identify the hauler and final recycled location for each diverted material.
- Based from the weight tickets the weight of each material type diverted from landfill as well as the weight of any waste sent to landfill. Exclude landscaping debris.
- If exact material weights are not available, the Volume to Weight Conversion Calculator below may be used to estimate the weights.

RECYCLED MATERIAL TYPES TABLE		HAULER	RECYCLING LOCATION
Recycled Material #1	Concrete	ABC	Urban Concrete Products
Recycled Material #2	Rebar, Steel, Stone	DEF	ABC Recycle
Recycled Material #3	Rebar, Cardboard	GHI	City Street
Additional Material	Plastic	JKL	ABC Recycle
Additional Material	Cardboard, Block 2	MNO	Urban Concrete Products
Additional Material	Stone, Concrete	OPQ	ABC Recycle

RESULTS	
CONSTRUCTION WASTE GENERATED	57.87 Tons
CONCENTRATION CONSTRUCTION WASTE DIVERTED	53.90 Tons
PERCENTAGE CONSTRUCTION WASTE DIVERTED	93.1%
ANTICIPATED POINTS	1 POINT

CONSTRUCTION AND DEMOLITION WASTE TABLE

Head Date	Ticket #	RECYCLED DIVERSION				ADDITIONAL DIVERSION				LANDFILL		TOTAL WEIGHTS		
		Concrete (Tons)	Rebar (Tons)	Cardboard (Tons)	Plastic (Tons)	Rebar (Tons)	Stone (Tons)	Other (Tons)	Other (Tons)	Total Weight (Tons)	Total Diverted (Tons)	% Diverted		
10/27/13	411054													
10/28/13	521463	2.74	0.63											
10/29/13	521469	2.38												
10/29/13	564259	1.24	0.62											
10/14/13	397460	3.76	0.18		0.30									
10/09/13	440084													
10/26/13	342980													
10/12/13	333220													
10/17/13	440053				0.30									
10/17/13	362793	1.37			0.33									
					0.71				1.10	2.47				
											0.71	0.71	100.00%	

Waiver Request

- Not all projects can meet diversion requirement

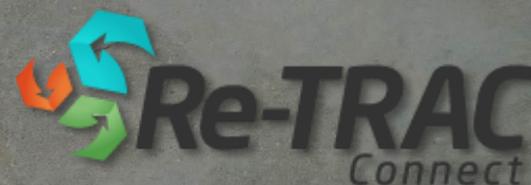


- Describe good faith effort to divert
- Explain why Project didn't meet 50%

Contractors' C&D Recycling Report

AustinTexas.gov/CD:

- Report form
- Instructional Guide
- **You Tube** video
- Weight Ticket spreadsheet



ARRConstructionRecycling@austintexas.gov

Licensed Haulers

- Inform Contractors about ordinance
- Provide data for Contractors to report
- Support landfill alternatives
- Report C&D tonnages to Austin Code



Destination Facility	Tons of Material (Excluding C&D)	Tons of C&D Debris	TOTAL
Disposal Facility/Landfill	+	=	
Recycling Operation	+	=	
Organic Processor	+	=	

Ordinance Outreach

- Training & presentations
 - Licensed Haulers, C&D debris processors
 - Austin AGC
 - General contractors registered with permit office
 - Austin Energy Green Building professional development seminar
- Email & letters to permittees
- Permit reviewers and inspectors
- Permit Expeditors



Are you affected by Austin's Construction & Demolition Recycling Ordinance?

Permit applications submitted on or after Oct. 1, 2016 for more than 5,000 square feet of new, added or remodeled floor area must meet certain recycling requirements.

What does the ordinance require of affected projects?

- 1. Diversion Requirements – either:**
 - Divert at least 50% of the construction debris from landfill! OR
 - Dispose of no more than 2.5 pounds of construction debris per square foot of floor area
- 2. Reporting Requirement:** Contractor must submit a Construction and Demolition (C&D) Recycling Report when requesting Final Inspection

For more information:
www.AustinTexas.gov/CD
ARRConstructionRecycling@austintexas.gov

Construction & Demolition Recycling Ordinance
RECYCLING ORDINANCE BEGINS OCT. 1, 2016



Permittee Notice

- Application “check box”
- Notification by email or letter when:
 - Permit application is submitted
 - Building permit is received
- Reminder by email or letter when GC requests:
 - Intermediate inspections
 - Final inspection

Local Recycling Economic Development

www.austintexas.gov/recyclingecodev

Austin Resource Recovery
+ Economic Development Department

Jobs through Zero Waste

Turn trash
into your next
revenue stream.

austin
**materials
marketplace**

LEARN MORE

This advertisement features a background of various pieces of trash, including plastic bottles, paper, and food waste. A small green plant is growing out of the trash. The text is in a clean, sans-serif font.

LOCALLY AUSTIN
- GET THE LOCAL EXPERIENCE & SUPPORT SMALL BUSINESS -

LocallyAustin.org is a tool for discovering the many locally-owned, small businesses that make Austin unique. Whether you're here for a day or here for a lifetime, let locallyAustin.org point you toward local fun and flavor.

[re] MADE AUSTIN [re] SHARE AUSTIN [re] PAIR AUSTIN

Shop Zero Waste

The advertisement shows a blurred background of a restaurant or cafe interior. It features a location pin icon above the 'LOCALLY AUSTIN' text. Below the text are three interlocking gears in green, blue, and brown, each containing the words '[re] MADE AUSTIN', '[re] SHARE AUSTIN', and '[re] PAIR AUSTIN' respectively. At the bottom is a white button with a circular arrow icon and the text 'Shop Zero Waste'.

GET UP TO
\$1,800

FOR YOUR BUSINESS
TO GO
ZERO WASTE

This advertisement has a background of a wooden surface with a blue folder and a yellow pencil. The text is centered on a white rectangular background. The amount '\$1,800' is in a large, bold, teal font.



Construction & Demolition

RECYCLING ORDINANCE BEGINS OCT. 1, 2016

Contact Us >>

ARRConstructionRecycling@austintexas.gov

AustinTexas.gov/CD



**ZWAC
Construction &
Demolition
Recycling
Committee
Aug. 30, 2016**

Are you affected by Austin's Construction & Demolition Recycling Ordinance?

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What does the ordinance require of affected projects?

1. Diversion Requirements – either:

- Divert at least 50% of the construction debris from landfill OR
- Dispose of no more than 2.5 pounds of construction debris per square foot of floor area

2. Reporting Requirement: Contractor must submit a Construction and Demolition (C&D) Recycling Report when requesting Final Inspection

For more information:
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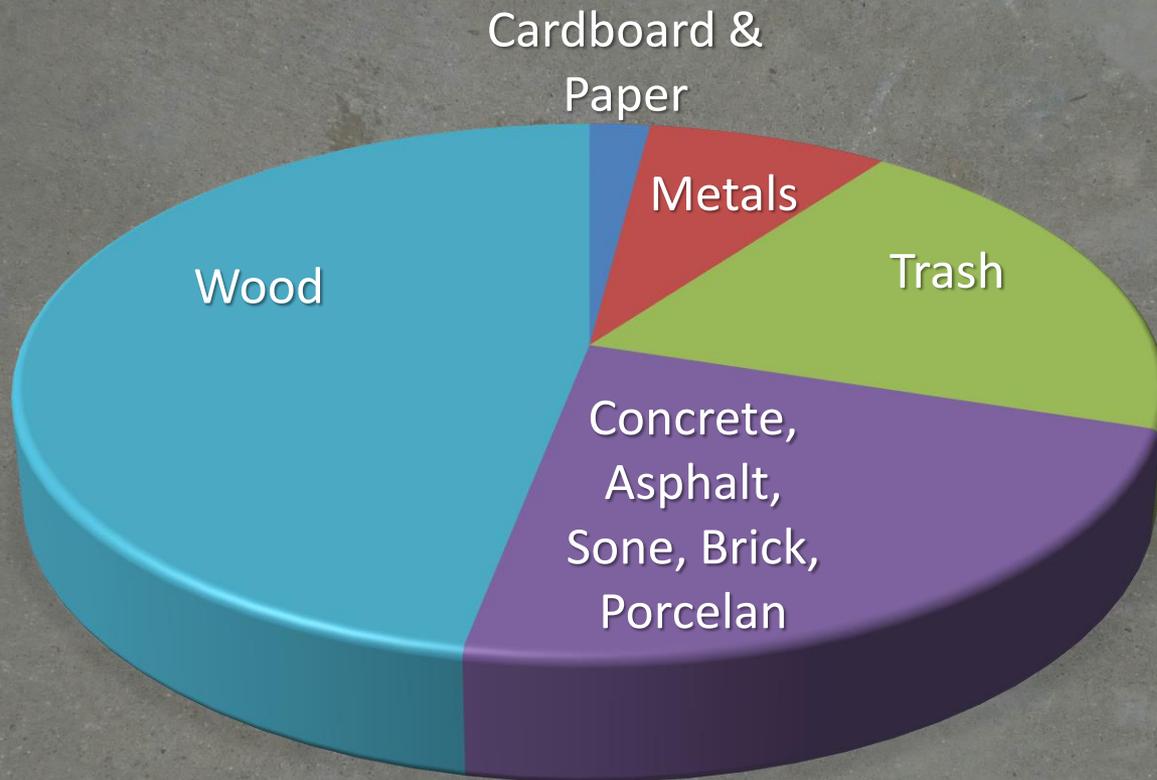


Construction & Demolition

RECYCLING ORDINANCE BEGINS OCT. 1, 2016



What's in C&D Material?



Typical Commingled C&D Processor's Outbound Materials

Tons Diverted or Landfilled

Contractor's C&D Recycling Report tonnage

Material Type	Tons		
	Diverted	Disposed	Total
Clean, Source-Separated Material	<i>100</i>		<i>100</i>
Commingled (mixed) C&D Material	<i>200</i>	<i>100</i>	<i>300</i>
Landfill Trash		<i>50</i>	<i>50</i>
TOTAL	<i>300</i>	<i>150</i>	<i>450</i>

File upload:

- Weight Ticket Summary

Weight Ticket Summary

- Option 1: Load-by-Load Summary
- Option 2: Qualified Processor report
- Option 3: Combination of 1 & 2



Aug. 30, 2016

ZWAC C&D Recycling Committee



Weight Ticket Summary

Option 1: Load-by-Load

Examples:

- AEGB Calculator
- LEED documentation
- ARR spreadsheet
- Hauler or processor

CONSTRUCTION AND DEMOLITION WASTE CALCULATOR

MATERIALS AND RESOURCES

PROJECT NAME: Sample Project

REQUIREMENTS
Recycle and/or salvage at least 50%, by weight, of non-hazardous construction and demolition waste, excluding excavated soil, stone, and land clearing debris. Diverted material must include at least four material streams (i.e. concrete, metal, wood, gypsum wallboard, paper and cardboard, plastic). One point is achieved if the diversion percentage is at least 75%. Final measure achievement is determined by AEGB review.

INSTRUCTIONS
1. In the Recycled Material Types table to the right, identify the minimum four material streams to be diverted from landfill associated with construction and/or demolition of the project. Also identify any additional material streams diverted from landfill during construction and/or demolition. Identify the hauler and final recycler location for each diverted material.
2. Record from the weight tickets the weight of each material type diverted from landfill as well as the weight of any waste sent to landfill. Exclude land-clearing debris.
3. If exact material weights are not available, the Volume to Weight Conversion Calculator below may be used to estimate the weight.

RESULTS	
CONSTRUCTION WASTE GENERATED	57.67 tons
CONSTRUCTION WASTE DIVERTED	52.90 tons
PERCENTAGE CONSTRUCTION WASTE DIVERTED	91.7%
ANTICIPATED POINTS	1 Point

RECYCLED MATERIAL TYPES TABLE			
REQUIRED MATERIAL #	DESCRIPTION	HAULER	RECYCLING LOCATION
Required Material # 1	Wood/Lumber	IESI	Texas Organics Products
Required Material # 2	Metal / Tin / Steel	IESI	ABS Metals
Required Material # 3	Paper / Cardboard	IESI	CT Shred
Required Material # 4	Plastics	IESI	IESI
Additional Material	Sheetrock	IESI	Texas Organics Products
Additional Material	Concrete / Blocks /	IESI	PM 973 Pit
Additional Material	Demo Concrete	Recon	PM 973 Pit
Additional Material	Miscellaneous		

CONSTRUCTION AND DEMOLITION WASTE TABLE

WEIGHT TICKETS		REQUIRED DIVERSION				ADDITIONAL DIVERSION				LANDFILL		TOTAL WEIGHT		
Haul Date	Ticket #	Wood/Lumber (tons)	Metal / Tin / Steel (tons)	Paper / Cardboard (tons)	Plastics (tons)	Sheetrock (tons)	Concrete / Blocks / Rebar (tons)	Demo Concrete (tons)	Misc. (tons)	Trash (tons)	Total Weight (tons)	Total Diverted (tons)	% Diverted	
01/03/13	481255													
01/14/13	521963													
01/22/13	525789	2.74	0.63								3.75	3.75	100.00%	
02/05/13	564238							3.75						
02/14/13	587456						0.53			0.42	3.79	3.37	88.92%	
03/08/13	600054				0.30		0.23			0.80	5.31	4.51	84.93%	
03/26/13	612998						0.59			0.35	2.32	1.97	84.91%	
04/02/13	633325	2.34					15.83			0.59	5.93	5.34	90.05%	
04/17/13	645523			0.20	0.10		0.39			0.98	16.81	15.83	94.17%	
04/30/13	652393	1.77		0.20	0.10		8.85			0.69	3.62	2.93	80.94%	
				0.71		1.10	2.47			0.94	10.09	5.34	52.90%	
											0.71	0.71	100.00%	





CONSTRUCTION AND DEMOLITION WASTE CALCULATOR



MATERIALS AND RESOURCES

PROJECT NAME

Sample Project

REQUIREMENTS

Recycle and/or salvage at least 50%, by weight, of non-hazardous construction and demolition waste, excluding excavated soil, stone, and land clearing debris. Diverted material must include at least four material streams (i.e. concrete, metal, wood, gypsum wallboard, paper and cardboard, plastic). One point is achieved if the diversion percentage is at least 75%. Final measure achievement is determined by AEGM review.

RESULTS		
CONSTRUCTION WASTE GENERATED	57.67	tons
CONSTRUCTION WASTE DIVERTED	52.90	tons
PERCENTAGE CONSTRUCTION WASTE DIVERTED	91.7%	
ANTICIPATED POINTS	1 Point	

INSTRUCTIONS

- In the Recycled Material Types table to the right, identify the minimum four material streams to be diverted from landfill associated with construction and/or demolition of the project. Also identify any additional material streams diverted from landfill during construction and/or demolition. Identify the hauler and final recycler location for each diverted material.
- Record from the weight tickets the weight of each material type diverted from landfill as well as the weight of any waste sent to landfill. Exclude landclearing debris.
- If exact material weights are not available, the Volume to Weight Conversion Calculator below may be used to estimate the weight.

RECYCLED MATERIAL TYPES TABLE			
	MATERIAL DESCRIPTION	HAULER	RECYCLING LOCATION
Required Material #1	Wood/Lumber	IESI	Texas Organics Products
Required Material #2	Metal / Tin / Steel	IESI	ABS Metals
Required Material #3	Paper / Cardboard	IESI	CT Shred
Required Material #4	Plastics	IESI	IESI
Additional Material	Sheetrock	IESI	Texas Organics Products
Additional Material	Concrete / Blocks /	IESI	FM 973 Pit
Additional Material	Demo Concrete	Recon	FM 973 Pit
Miscellaneous			

CONSTRUCTION AND DEMOLITION WASTE TABLE

WEIGHT TICKETS		REQUIRED DIVERSION				ADDITIONAL DIVERSION				LANDFILL	TOTAL WEIGHT		
Haul Date	Ticket #	Wood/Lumber (tons)	Metal / Tin / Steel (tons)	Paper / Cardboard (tons)	Plastics (tons)	Sheetrock (tons)	Concrete / Blocks / Rehar (tons)	Demo Concrete (tons)	Misc. (tons)	Trash (tons)	Total Weight (tons)	Total Diverted (tons)	% Diverted
01/03/13	481255							3.75			3.75	3.75	100.00%
01/14/13	521963	2.74	0.63							0.42	3.79	3.37	88.92%
01/22/13	525789	3.98					0.53			0.80	5.31	4.51	84.93%
02/05/13	564238	1.62	0.12				0.23			0.35	2.32	1.97	84.91%
02/14/13	587456	3.86	0.59		0.30		0.59			0.59	5.93	5.34	90.05%
03/08/13	600054						15.83			0.98	16.81	15.83	94.17%
03/26/13	612598	2.34			0.20		0.39			0.69	3.62	2.93	80.94%
04/02/13	633325			0.20	0.10		8.85			0.94	10.09	9.15	90.68%
04/17/13	645523	1.77				1.10	2.47				5.34	5.34	100.00%
04/30/13	652393			0.71							0.71	0.71	100.00%

Weight Ticket Summary

Option 1: Load-by-Load

Examples:

- AEGB Calculator
- LEED documentation
- ARR spreadsheet
- Hauler or processor



Diverted Materials and Construction Waste						
Submitter/Builder		Project/Address			Date	
		MUELLER AIRPORT			12/19/14	
Materials Description	Receipt Date	Disposal or Diversion Method	Sub-contractor Hauler	Destination (Recycler or Landfill)	Volume Cu. Yds.	Weight Tons
Wood/Cardboard/Sheetrock	1-Oct	Recycle				
Wood/Cardboard/Sheetrock	14-Oct	Recycle			20.00	4.38
Wood/Cardboard/Sheetrock	17-Oct	Recycle			20.00	2.41
Wood/Cardboard/Sheetrock	20-Oct	Recycle			20.00	6.38
Wood/Cardboard/Sheetrock	29-Oct	Recycle			20.00	4.91
Wood/Cardboard/Sheetrock		Recycle			20.00	4.98
Wood/Cardboard/Sheetrock		Recycle				
*** RECYCLE OFFICE PAPER/ALUMINUM THROUGH CITY OF AUSTIN ***						
*** PRE-FABRICATED WALLS ***						
*** ENGINEERED ROOF TRUSSES & I-BEAM FLOOR TRUSSES ***						
Total Recycling						
Waste to Landfill						
Construction Waste	1-Oct	Landfill			100.00	23.06
Construction Waste	14-Oct	Landfill				
Construction Waste	17-Oct	Landfill			20.00	0.23
Construction Waste	20-Oct	Landfill			20.00	1.62
Construction Waste	29-Oct	Landfill			20.00	0.13
Construction Waste		Landfill			20.00	0.10
Construction Waste		Landfill			20.00	0.88
Construction Waste		Landfill				
Total Waste Sent to Landfill						
Total of All Construction					100.00	2.98
PERCENTAGE OF CONSTRUCTION WASTE DIVERTED FROM LANDFILL					200.00	26.02
						88.00%

Weight Ticket Summary

Option 1: Load-by-Load

Examples:

- AEGB Calculator
- LEED documentation
- **ARR spreadsheet**
- Hauler or processor



CITY OF AUSTIN CONSTRUCTION RECYCLING REPORT

This information is retrieved from the 'Project Info' tab:

Reference Building Permit No.:
Total Project Floor Area: 10,000 sq ft

Enter Weight Ticket details in the bottom table and the following will calculate automatically.

Beginning Date: 11/1/2016
Ending Date: 11/3/2016

Material Type	TONS		
	Diversion	Landfill	Total
Clean, Separated Material	10		10
Commingled C&D Material	10	10	20
Landfill Trash		5	5
TOTAL TONS	20	15	35

Did the Project meet one of the following?

Requirement	Calculations	Meet Requirement?
Project Diversion Rate $\geq 50\%$	57.1%	Yes
Project Disposal Rate < 2.5 lbs/sq ft	3.0 lbs/sq ft	No

WEIGHT TICKETS - Enter Weight Ticket details below.

Date	Weight Ticket #	Material Type	TONS		
			Diversion	Landfill	Total
Ex: 1/15/2016	158321	Commingled C&D Material			
11/1/2016	43153	Clean, Separated Material	2.1	3.1	5.2
11/2/2016	12352	Commingled C&D Material	10		10
11/3/2016	354212	Landfill Trash		10	20
		Select material		5	5
		Select material			

ARR Spreadsheet

CITY OF AUSTIN CONSTRUCTION RECYCLING REPORT

This information is retrieved from the 'Project Info' tab:

Reference Building Permit No.:
Total Project Floor Area: 10,000 sq ft

Enter Weight Ticket details in the bottom table and the following will calculate automatically.

Beginning Date:
11/1/2016

Ending Date:
11/3/2016

Material Type	TONS		
	Diversion	Landfill	Total
Clean, Separated Material	10		10
Commingled C&D Material	10	10	20
Landfill Trash		5	5
TOTAL TONS	20	15	35

Did the Project meet one of the following?

	Requirement	Calculations	Meet Requirement?
Project Diversion Rate	≥ 50%	57.1%	Yes
Project Disposal Rate	< 2.5 lbs/sq ft	3.0 lbs/sq ft	No

WEIGHT TICKETS - Enter Weight Ticket details below.

Date	Weight Ticket #	Material Type	TONS		
			Diversion	Landfill	Total
Ex: 1/15/2016	158321	Commingled C&D Material	2.1	3.1	5.2
11/1/2016	43153	Clean, Separated Material	10		10
11/2/2016	12352	Commingled C&D Material	10	10	20
11/3/2016	354212	Landfill Trash		5	5
		Select material			
		Select material			

Weight Ticket Summary

Option 2: Qualified Processor

- Qualified Processor report
 - Date Range
 - Facility Average Diversion Rate
 - Delivered Tonnage
 - Tons Diverted
 - Tons Landfilled

Multi-Permit Projects

Contractor can submit one report for:

- Multiple affected permits at one location
- Other non-affected permits at that site:
 - ≤ 5,000 sq ft
 - Demolition

Report due when contractor requests last
final inspection

Multi-Permit Projects: ARR .xls

CITY OF AUSTIN CONSTRUCTION RECYCLING REPORT

Use this form to record permit numbers and contact information for this project.

Use the 'Load Info' tab to enter tonnage for loads of construction debris generated by this project.

PERMIT NUMBERS

Many projects have separate permits for each construction phase or structure at the same location. Some of these permits may not be affected by this ordinance. To simplify reporting, enter building permit information for all of the Affected Projects at this location. Optionally, also enter permit information for permits that are not affected, such as demolition or structures with no more than 5,000 square feet of floor area.

[Click here to search for Permit Numbers and Floor Areas.](#)

Permit Number	Floor Area (sq ft)
Ex: 2016-123457 BP	3000

Permit Number	Floor Area (sq ft)

Permit Number	Floor Area (sq ft)

Total Floor Area: - sq ft

For reporting purposes, use this permit number, which is the smallest, as the **Reference Permit No.:**

Contractor Information

Company Name

City

Contact Name

Contact Phone

Mailing Address (Street or PO Box)

State

Zip

Contact Email

Contact Title

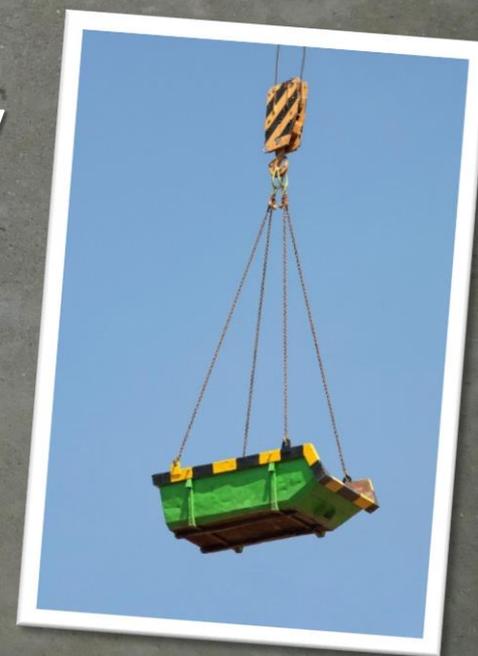
Owner Information

Contact Name

Contact Email

Contractors' C&D Recycling Report

1. Establish Re-TRAC account
2. Add Building Project
3. Open Report Form
4. Enter data & upload either:
 - Load-by-Load Weight Ticket Summary
 - Qualified Processor data
5. Request Waiver, if necessary
6. Submit Report



Licensed Haulers



LICENSED HAULERS

data.austintexas.gov ▼ MENU

Haulers Licensed by City of Austin

	Name of Hauler	Phone	Type of Hauler	Website
31	Captain Hook Austin	512-719-4172	Landfill, Recycle	http://www.captainhookaustin.com/
32	Central Texas Refuse	512-243-2833	Landfill, Recycle	http://centraltexasrefuse.com/
33	Central Waste & Recycling	512-267-9290	Landfill, Recycle	http://www.centralwasteinc.com
34	Certified Arbor Care, Inc	512-671-8733	Compost	http://www.certifiedarborcare.net
35	CleanScapes	512-448-1094	Landfill, Recycle	http://www.cleanscapes.net
36	CMC Gardening	512-788-6771	Recycle	
37	CMC Metal Recycling	512-442-2384	Recycle	https://www.cmc.com/