



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

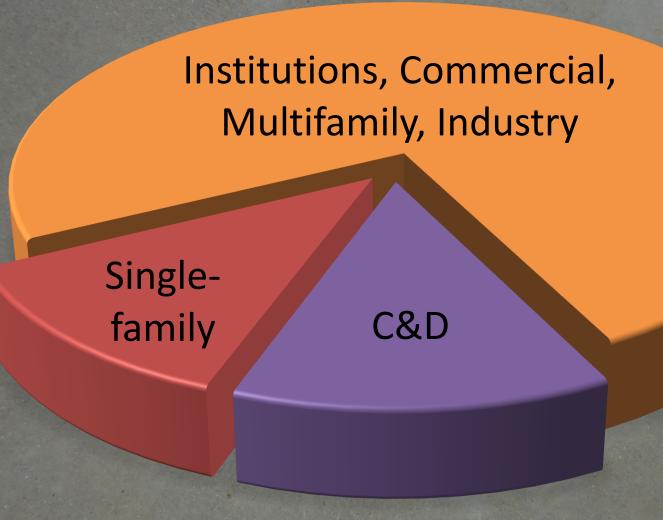


Outline





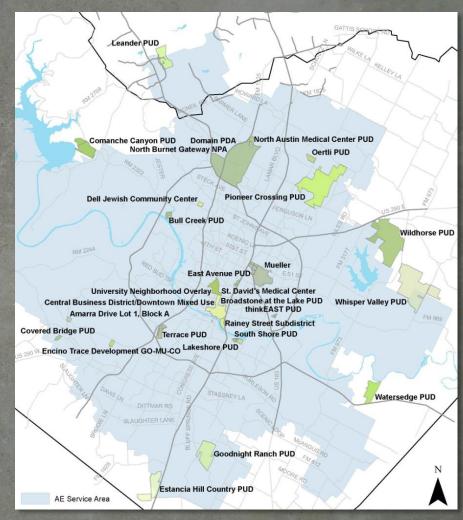
Waste generation



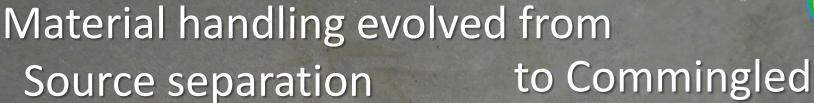
Austin Energy Green Building Construction Waste Management



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

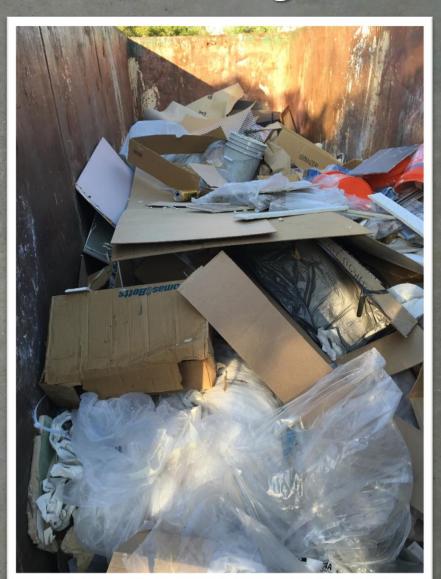








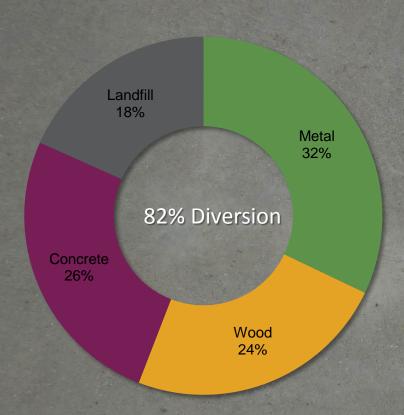






AEGB Case Study: Starbucks – Mueller





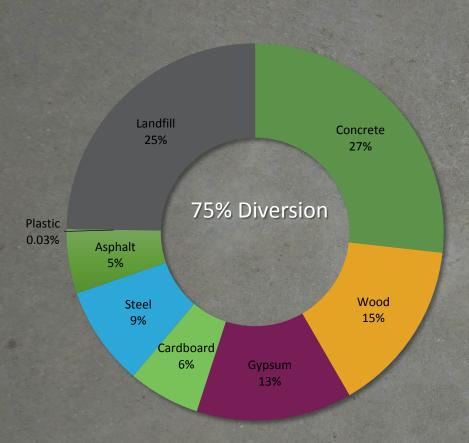






AEGB Case Study: The W Hotel & Residences



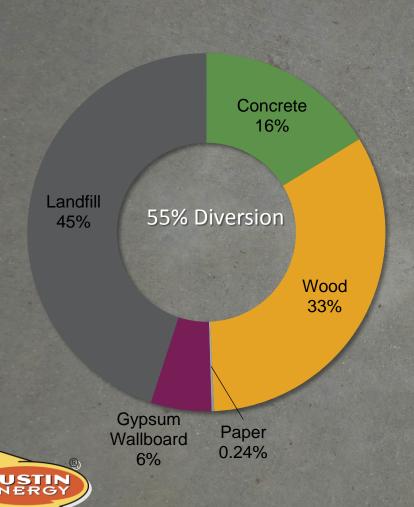






AEGB Case Study: Mosaic Apartments - Mueller











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

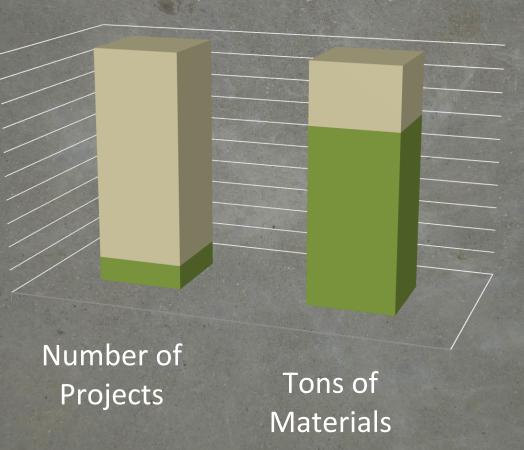
Est. annual number of projects by type

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



■ < 5,000 sf

> 5,000 sf



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 ≥ 50%, or
- Dispose ≤ 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





Contractor Reporting Requirement

Contractors' C&D Recycling Report

- Due at Final Inspection
- Online Report includes:

Re-TRAC Connect

- Contractor & Owner contact Info
- Building permit numbers, floor areas, address
- Tons diverted or landfilled & backup
- Waiver Request, if necessary

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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 Expediters

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

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
- Dispose of no more than 2.5 pounds of construction debris from landfill OR square foot of floor area
- 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





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









July 6, 2016

For a full list of Licensed Haulers: www.austintexas.gov/page/licensed-haulers

Resources: C&D Material Markets

Austin-Area Construction Material Reuse or Recycling Facilities

This list is supplied without endorsement. Other providers may also be available.

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FACILITY / SERVICE	Phone	Website	Location	Onsite Salvage	Structural Moving	On Site Processing	2	Public Sales (call 1st)	Appliances	Asphalt Pavement	Asphalt Shingles	Acoustical Ceiling Tile	Architectural Salvage	Carpet or Padding	Concrete	Corrugated Packaging	Gyp sum Board	Land Clearing Debris	Masonry	Metal	Paint	Porcelain	Wood
973 Materials		973materials.com	6005 FM 973, Del Valle 78617							Х	Х		\Box		X :	X		X	Х	Х)	(Х
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Absolute Demolition	512-296-1095	absolutedemolition.com	987 Hwy 183 N, Liberty Hill 78642	Х					Х					Х)	K		Х	^			
All American Recycling	512-243-1183	allamericanrecycle.com	9202 FM 812, Austin 78719			χ		X X	Х											Х			
Armstrong Ceiling Tile Recycling Program		* see below										Х											
Austin Metal & Iron	012-477-4640	a stinmetalandiron.@t	1000 E 4th St, Austin 78702					X						1		4				X		4	
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Backyard Salvage & Garden	512-832-8300		9721 US Hwy 290 East, Austin 78724		+			X					_										-
Beaman Metal Co	512-385-6935		3409 E 5th St, Austin 78702					X					\Box							X			
Brown & Sons House Moving	512-247-3901		14307 Larkdale St, Del Valle 78617		X		_		_	_	ш	_	_	_	_	4	\perp			\blacksquare		\bot	-
Building Abatement Demolition Company	512-778-6069 512-301-8300	badcompany-inc.com	1501 CR 256, Liberty Hill 78642	v	+-	Х	-	-	-	-	ш	-	-	-	-	-	+	-	=	\blacksquare	_	+	-
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CMC Metal Recycling	512-442-2384		701 Industrial Blvd, Austin 78745		-	Х		X			\Box		_		_					X			
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Complete Floors	512-912-7527		4612 Burleson, Ste M								Ш	_	\Box	Х	\perp								
Construction Waste Recycler of Texa	512-284-9440	cwrtexas.com	924 alvary Ride T., Austin 78732	X		Х	X	-			X		ų	w	Λ	X	X		X	X	4	-	X
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Eagle Carpet Recycling	512-491-9550		404 W Powell Ln #606, Austin 78753	1	+			X			Н	\neg	\neg	Х	\neg	_				_			
Ecology Action	512-322-0000		707 E 9th St, Austin 78701					X								X				Х			
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Marcelo's Sand and Loam	512-385-5205		9200 Ramirez Ln, Austin 78742		-			X		Х	П	\neg	\neg		Х	_		Х		\Box		\top	
Organics by Gosh		organicsbygosh.com	13602 FM 969, Webberville 78653			Х	X	X								X							Х
R3 Demo & Removal		r3removal.com		X	\perp			_	_			\rightarrow	_		_	_		\vdash	\perp	\sqcup	_	\perp	\perp
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River City Rolloff	512-832-8300		9721 US Hwy 290 East, Austin 78724				X	+	^	×	^		\dashv		^	^		^	^	^		1	^
Shingle Recycling - Central Texas	512-894-4441		6005 FM 973, Del Valle 78617				^				X	7	\neg	-									т
Sierra Demolition	512-336-7665	sierracontractingcorporation.com	PO Box 78758, Round Rock 78683	Х																			
Southern Demolition and Environmental	512-222-6805		3601 S Congress H-200, Austin 78704	Х			4						\Box										
Southwest Destructors		southwestdestructors.com	11804 N Lamar, Austin 78753	-		Х	\rightarrow	+				v	_	v	X	+	+	-	-	X	+	+	-
Texas Carpet & Construction Recycling Texas Disposal Systems	817-TCR-2345 512-421-1300	texascarpetrecycling.com texasdisposal.com	3016 FM 1327, Buda 78610	-		¥	x	+	¥	X		X	Y	X	Y ·	X 1	/ Y	Y	¥	¥	X Y	V	Y
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The Reuse People		TheReusePeople.org	greater Austin	Х			_						\dashv										Ť
Travis County Landfill	512-243-6300	iesi.com	9600 FM 812, Austin 78719				Х						\Box			Х	X			X	Х	Į.	X
TRI Recycling	512-329-0172		8700 Lava Hill Rd, Ausin 78744	X		X	X		X	-		X	X	X		X X	XX		X	Х	X	4	X
Walker Aero Environmental LLC / JV Dirt + Loam	512-927-1977		3600 FM 973 N, Austin 78725	X		Х	X	+		X		v	X			XX	XX	X	X	X	Х	X	X
Waste Management of Texas Whittlesey Landscape Supplies & Recycling	713-423-1871 512-385-0732		9708 Giles Rd Austin 78758 629 Dalton Ln, Austin 78742		+		X	X		X	Х	Х	X	-	X	Х	X	X	X	Х	-	+	X
Whittlesey Landscape Supplies & Recycling Whittlesey Landscape Supplies & Recycling	512-989-7625		3219 South IH-35, Round Rock 78664					X					\dashv										X
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Construction Demolition

RECYCLING ORDINANCE BEGINS OCT. 1, 2016

Contact Us >>

ARRConstructionRecycling@austintexas.gov

AustinTexas.gov/CD





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 constuction 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 BEGINS OCT. 1, 2016

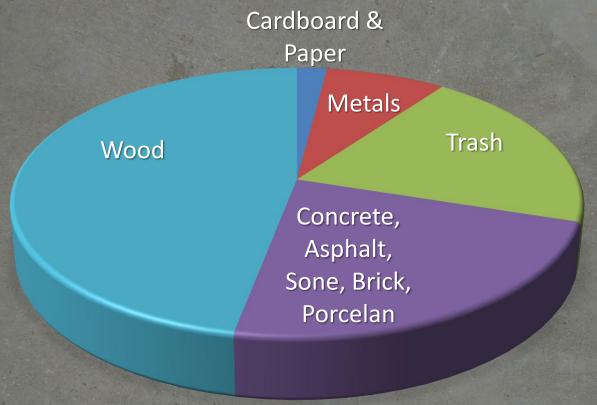






What's in C&D Material?





Typical Commingled C&D Processor's Outbound Materials



Tons Diverted or Landfilled

Contractor's C&D Recycling Report tonnage

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

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





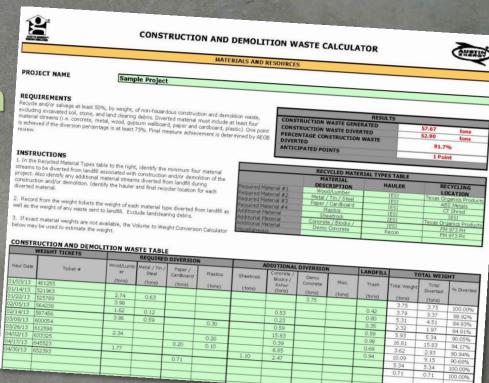


Weight Ticket Summary Option 1: Load-by-Load

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.

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

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 landclearing debris.
- 3. If exact material weights are not available, the Volume to Weight Conversion Calculator below may be used to estimate the weight.

	RECYCLED MATERIA	L 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			

3	WEIGHT TICKETS		REQUIRED	DIVERSION	V	А	DDITIONAL	DIVERSION		LANDFILL	то	TAL WEIG	HT
Haul Date	Ticket #	er	Metal / Tin / Steel	Paper / Cardboard	Plastics (tons)	Sheetrock (tons)	Concrete / Blocks / Rehar	Demo Concrete	Misc.	Trash	Total Weight	Total Diverted	% Diverted
01/02/12	481255	(tons)	(tons)	(tons)	(10115)	(toris)	(tons)	(tons) 3,75	(tons)	(tons)	(tons) 3.75	(tons) 3,75	100.00%
01/03/13								3.73			300 900 900		
01/14/13	521963	2.74	0.63							0.42	3.79	3.37	88.92%
01/22/13	525789	3,98			13		0.53			0.80	5.31	4.51	84.93%
02/05/13	564238	1.62	0.12	1			0.23		T.	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	1 18		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 7	M/AC C8.D	Recycling (ommitto				0.71	0.71	100.00%
				4	WAC COD	recycling c	Ommittee						



Weight Ticket Summary Option 1: Load-by-Load

Examples:

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



Submitter/Builder					BETTE BETA	115 10 10
		Project/Address	MUELLER AIRPORT			
Materials Description	Receipt Date	Disposal or Diversion	Sub-contractor	Destination	Date	12/
Wood/Cardboard/Sheetrock	A SHARE WAS ASSESSED.	Method	Hauler	(Recycler or	Volume	Wel
VVOOd/Cardhoeed/01	1-Oct	Recycle	the same of the sa	Landfill)	Cu. Yds.	To
VYOOd/Cardboard/Shaakaat	14-Oct	Recycle				
VVOOd/Cardhoard/Charles	17-Oct	Recycle		_	20.00	4.3
VV000/Cambosot/Chartes	20-Oct		_	_	20.00	2.4
VV000/Cardboan/Qhanter	29-Oct	Recycle	_		20.00	6.3
VVOCd/Cardbonrd/Shapkant		Recycle		_	20.00	4.9
Wood/Cardboard/Sheetrock		Recycle			20.00	4.9
- CONTRACTOR		Recycle		_		7.0
		Recycle		_		
						-
						_
RECYCLE OFFICE CO.						-
** RECYCLE OFFICE PAPER/ALUMINUM TH	ROUGH CITY OF AUGUS					
PRE-FABRICATED WALLS***	STATE OF AUSTIN					
* ENGINEERED ROOF TRUSSES & I-BEAM	FLOOR YOURSE				-	
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Instruction Waste sensitive in W	14-Oct 17-Oct 20-Oct	Landfil Landfil Landfil Landfil Landfil Landfil Landfil			20.00 20.00 20.00 20.00 20.00 20.00 20.00	0.23 1.62 0.13 0.10 0.88
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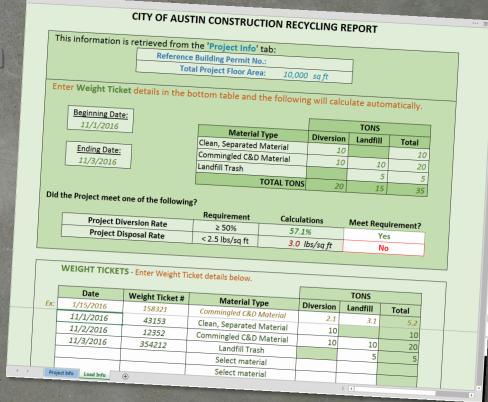


Weight Ticket Summary Option 1: Load-by-Load

Examples:

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





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

		TONS	
Material Type	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.

					TONS		
	Date	Weight Ticket #	Material Type	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				
		7\	WAC C& Beleatowith side commit	tee			

Load Info



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:	_

unit No.

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

ZWAC C&D Recycling Committee

Aug. 30, 2016

Project Info

Load Info

(+)

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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



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