

Austin Construction and Demolition Overview

ZWAC C&D Committee Meeting 4/23/2021



Overview of C&D Recycling

- Austin C&D History
- What is C&D?
- Material Handling
- Austin's C&D Recycling Ordinance
- Processors and Disposal
- 2020 Economic Impact Report



C&D Recycling History

- Austin Energy Green Building
 - Initial commercial checklist in 1995, included strategies to reduce waste
- 2009 – C&D Ordinance development began
- 2016 – C&D Ordinance went into effect



What IS C&D?

Estimated 20% of total waste stream

- Wood
- Cardboard and Paper
- Metals
- Concrete
- Asphalt

- Stone, Brick, Porcelain
- Plastic
- Trash



Material Handling

- Commingled Processing
 - Hand sorted
 - Mechanically sorted
 - Combination
- Source Separated
 - High value materials



Austin's Construction and Demolition Recycling Ordinance

- Ch 15-6 Article 9 – Construction and Demolition Materials Diversion Program [Solid Waste Code]
- Ch 25-11-39 - Construction and Demolition Materials Diversion [Land Development Code]

Ordinance Requirements

Affected Projects:

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

Diversion requirements, either:

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

Post-Construction Report online

Waiver Request: if materials are non-recyclable

Qualified Processors

- Commingled C&D Processors
- Optional
- 3rd party verified facility diversion rate (through RCI or City registered evaluator)
- Simpler reporting for contractors



Processing and Disposal

- Commingled materials are sorted through automated or manual processes, or a combination
- Material disposed in Type I (MSW) or IV (C&D) landfills
- Processors are not required to register with COA
- Regulated by TCEQ
- Haulers take material to either in-house or 3rd party processor or landfill

2020 Economic Impact Study on C&D Recycling

Key Findings:

- Minimal economic impact to affordability
- Data from demolition projects insufficient (effected in 2019)
- Low reporting rate may skew diversion data upward
- Processors able to handle increased volume, if key materials are not contaminated
- 3rd party haulers struggle to compete due to limited processing facility access

C&D Ordinance Data

	2021	2020	2019
Submission Rate	10%	16%	13%
Average Diversion Rate (50% min)	61%	59%	67%
Average lbs per Sq Ft Disposed (2.5 max)	0.15	3.94	0.07
Waiver Approval Rate	N/A	74%	50%

Data is self reported to ARR from ordinance affected projects.
Does not include AEGB project data.

Key Takeaways

- Low project submission rate
 - Multiple outreach channels used; outreach increased in recent years
 - Limited reporting result in lack of data
- Lack of enforcement options
 - ARR Compliance team actively being formed
- Changing markets for C&D Materials
 - Lack of markets for materials (gypsum, asphalt shingles)
 - Conflict with department master plan and “burning for fuel” being allowed with RCI certification
 - Contaminated loads rejected by processors

Discussion



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