



Hennepin County C&D Waste

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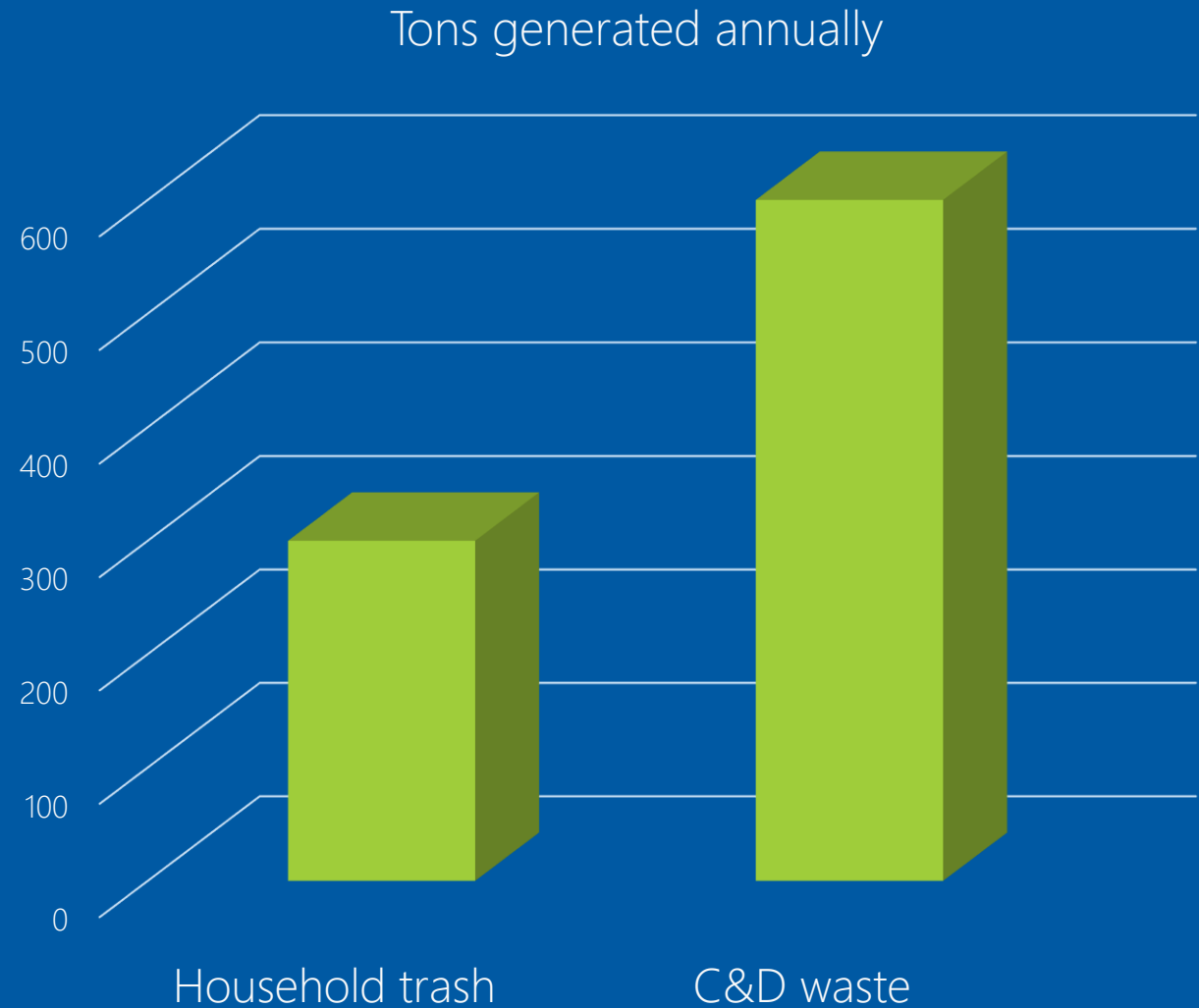
What is C&D waste?

Construction and demolition (C&D) waste is generated during construction, renovation, & demolition of buildings or structures.

- Asphalt & concrete
- Bricks
- Carpet
- Doors & windows
- Drywall
- Flooring
- Metals
- Wood & lumber

There is a lot of C&D waste!

The U.S. generates more than twice the amount of construction and demolition waste than municipal solid waste (EPA).



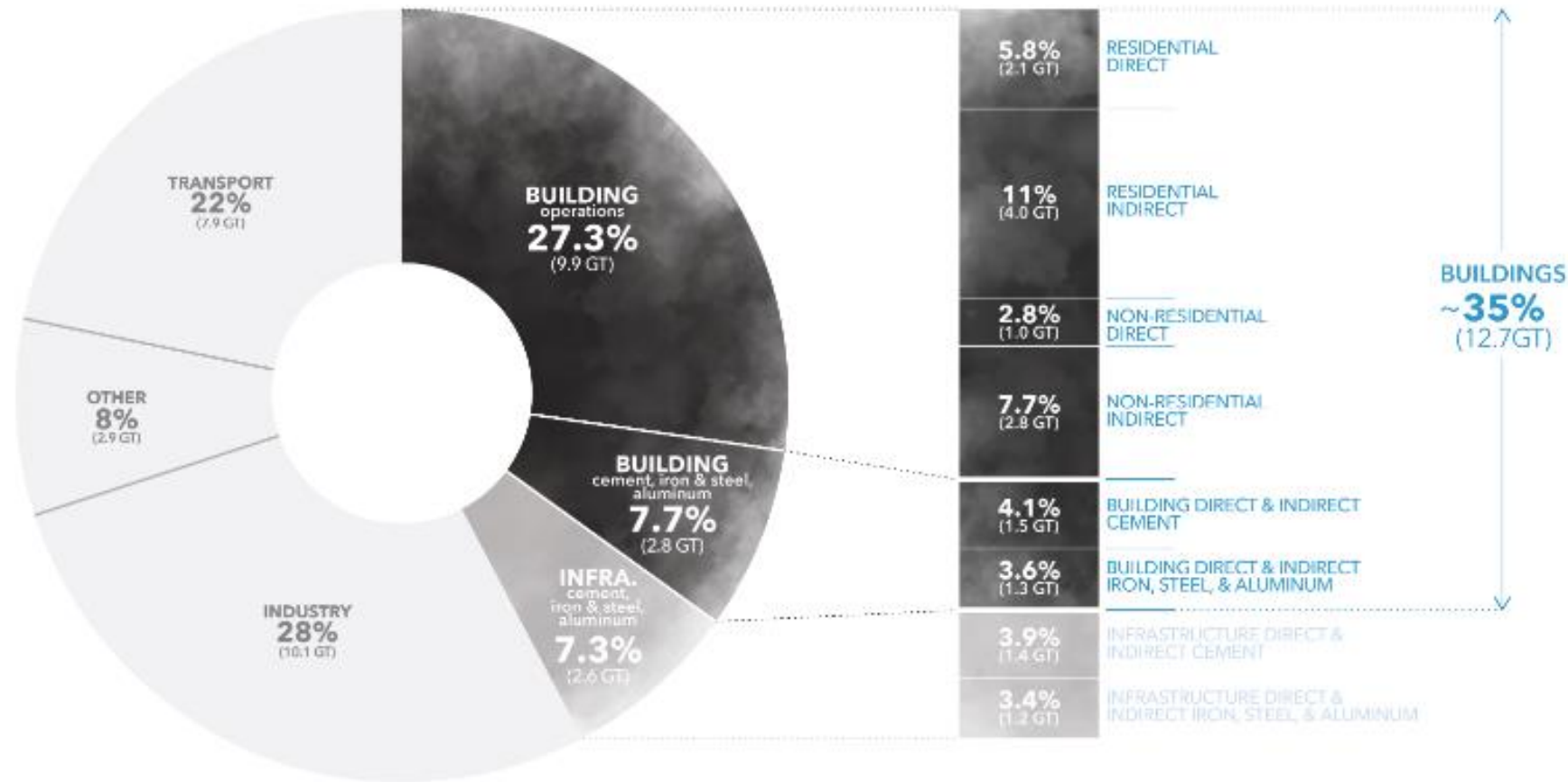
Why is there so much C&D waste?

- Redevelopment!
 - Residential and commercial
 - 90% of C&D waste from demolitions
- C&D waste is big and bulky.
- Challenging end-markets (example: carpet and drywall).



TOTAL ANNUAL GLOBAL CO₂ EMISSIONS

Direct & Indirect Energy & Process Emissions (36.3 GT)



Buildings are responsible for over 35% of annual global CO₂ emissions.

It is important to reuse and recycle as much of these materials as possible.



A construction worker wearing a white hard hat, a brown hoodie, and dark pants is carrying a large, long wooden beam. He is standing on a snowy ground. In the background, there is a brick building on the left and a wooden frame structure on the right. A large evergreen tree is also visible. The scene is set in winter.

Deconstruction:

Carefully dismantling a building structure to preserve building materials so they can be reused.

With deconstruction, about **85 percent** of the materials in a typical demolition project could be kept out of landfills.



Benefits

- Prevents usable materials from going to the landfill.
- Makes used building materials available to the community.
- Provides jobs.
- Supports local reuse retailers.
- Reduces dust from job sites compared to mechanical demolition.
- Can preserve historical building materials.





Incorporate salvaged building materials

- Unique, time period pieces to match or add character
- Affordable fixes for newer items
- Closes the loop and reduces waste
- Avoids embodied emissions with new materials
- Supports circular economy and local reuse retailers

Building material reuse organizations

The following organizations and businesses offer reuse and salvage opportunities for building materials. This list does not constitute approval of any of the firms identified nor do we claim the list is complete. This list was last reviewed January 2023. Call first to verify hours, materials accepted and sold, and guidelines. Note: most salvage outlets require nails and screws be removed from wood prior to donation or sale.

Name	Location	Phone	Website	Items accepted and/or sold
A Plus Appliances	St. Paul	651-771-0336	aplusappliance.org	Appliances
Accent Store Fixtures	Minneapolis	612-379-2788	asfmn.com	Retail fixtures including: shelving and storage units, gridwall
Architectural Antiques	Minneapolis	612-332-8344	archantiques.com	Various building materials, unique/historical artifacts
Art & Architecture	Minneapolis	612-904-1776	artandarc.com	Various building materials, unique/historical artifacts
Bauer Brothers Salvage 	Minneapolis	612-521-9492	bauerbrotherssalvage.com	Various building materials including: cabinets, commercial items, doors, lighting, plumbing, windows
Better Futures Minnesota 	Minneapolis	612-351-8657	betterfuturesminnesota.com	Building materials including: appliances, cabinets, doors, lighting, lumber, plumbing, tile
Big Wood Timber Frames	St. Paul	651-298-8776	bigwoodtimberframes.com	Dimensional lumber, timber, wood flooring
Bridging	Bloomington	952-888-1105	bridging.org	Furniture, household items
The Birch Group (Scrapbox Salvage) 	Minneapolis	612-323-9333	thebirchgroup.org and scrapboxsalvageco.com	Various building materials including: cabinets, commercial items, doors, lighting, plumbing, windows
City Salvage	Minneapolis	612-627-9107	citysalvage.com	Various building materials, unique/historical artifacts



Deconstruction organization

hennepin.us/salvage



Reuse business examples

Architectural Antiques (Minneapolis)

- Offers 25% off trade discount to architects, designers, and general contractors
archantiques.com

Bicycle Glass (Fridley)

- Hand-blown pennant lighting from recycled glass
bicycleglass.com

Wood from the Hood (Minneapolis)

- Tables, benches, counters, and other furniture/fixtures from reclaimed wood
woodfromthehood.com



Hennepin County offers grant funding to help encourage deconstruction.

Next are grant details & some project examples!

Hennepin County building reuse grants

	Residential deconstruction	Commercial deconstruction	Structural moves	Used building material installation
Goal	Reuse building materials from residential properties.	Reuse materials from commercial properties.	Relocate entire structure to preserve building.	Increase use and demand of used building materials.
Reuse requirements	<ul style="list-style-type: none"> ✓ 5+ different types of interior fixtures reused ✓ 1,000+ pounds of lumber reused 	<ul style="list-style-type: none"> ✓ 5+ different types of interior fixtures reused ✓ 1,000+ pounds of lumber reused 	<ul style="list-style-type: none"> ✓ Structure (aside from foundation) must be relocated 	<ul style="list-style-type: none"> ✓ 5+ different types of used interior fixtures installed ✓ 500+ pounds of used lumber installed
Funding available per project	\$5,000 maximum (up to \$2/square foot)	\$10,000 maximum (up to \$2/square foot)	\$15,000 maximum (up to \$5/square foot)	\$5,000 maximum (up to \$2/square foot)

Residential deconstruction

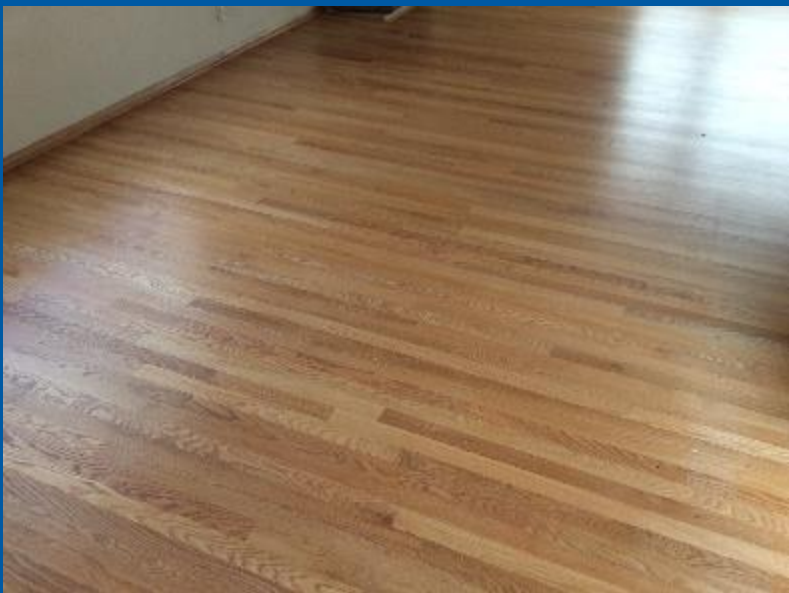
Materials salvaged:

- 970 square feet walnut and cedar paneling
- 400 square feet oak wood flooring
- Full kitchen set
- 3 light fixtures
- 9 doors
- 3 toilets
- 3 sinks
- Cast iron bathtub



3.57 tons of
materials reused
1.24 tons of
materials recycled





Used building material installation



DUTCH BAR
Central and Lowry

Guided Salvage Antiques
architectural elements and other cool stuff...

JOS. F. PALEN CO.
since "1913"
1055 North Fifth Street
Minneapolis, Minnesota 55411
612.338.7409 Fax 371.0218

ReStore
Twin Cities Habitat for Humanity



Used building material installation

Year Built: 1928 • Property type: Commercial

Neighborhood: Holland (NE Minneapolis) • Organization: Gus, LLC



DUTCH BAR
Central and Lowry



Full house move

Year Built: 1900 • Neighborhood: Near North / Jordan (Minneapolis)
Waste diverted: 220 tons • Organization: Jepsen, Inc.



Construction & Demolition Recycling Processing Facilities



- Recover materials for recycling (better use than sending to landfill).
- Facilities accept loads of C&D materials from both residents and contractors.
- Comparable price to sending to a landfill.
- C&D recycling facilities diverting at least 65% of material:
 - Atomic Recycling (Minneapolis)
 - Dem-Con (Shakopee)

Tips for reuse and recycling

- Set clear goals
- Ask contractors how they manage waste
 - Do they incorporate salvage or deconstruction into their projects?
 - Do they bring debris to a construction and demolition recycling processing facility? If not, are they willing to try it out for your project?
- Communicate throughout the project
- Follow up after project completion
 - Ask the contractor for documentation verifying goals were met.

Salvage Crawl

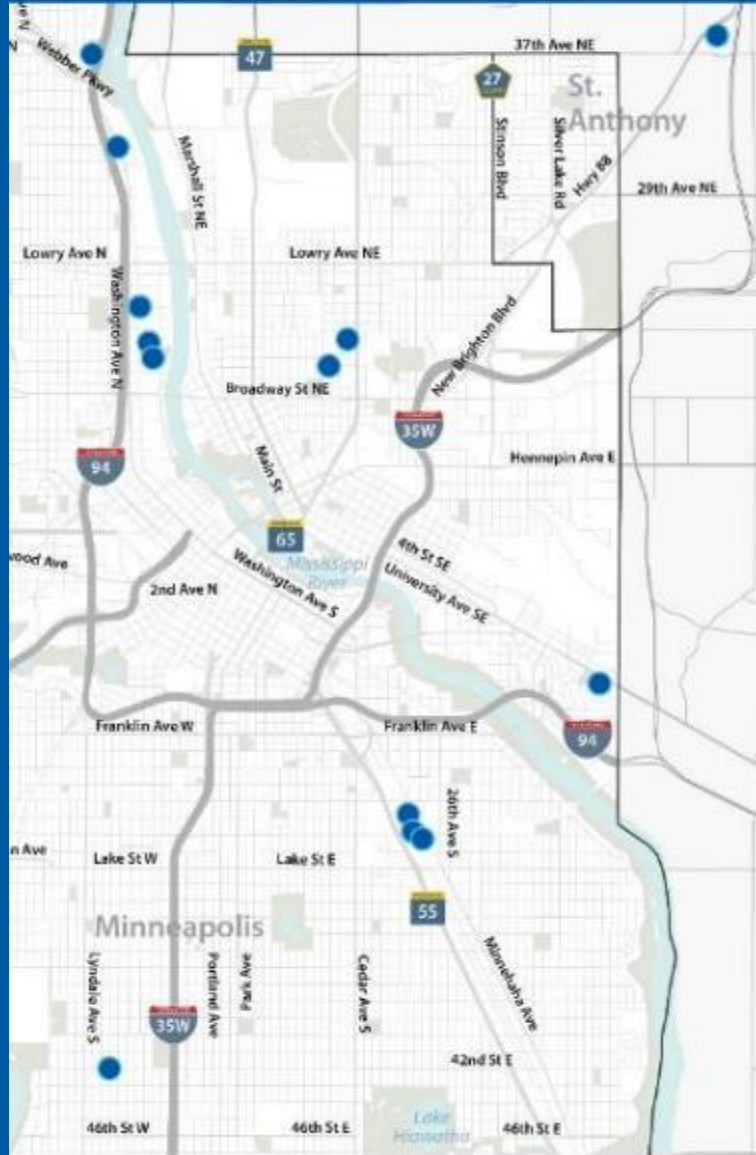
May 1 to 31

The greenest building material is one that already exists!

Learn about participating retailers and how to earn prizes at hennepin.us/salvage

Hennepin County Salvage Crawl

Retailer location map



Salvage Crawl results



101 participants



13 salvage retailer locations



40% of participants made a purchase



54% of participants were new to shopping salvage
(and of the first-time shoppers, 26% made a purchase)

May 2023

How have incorporated reuse into projects?

What went well? What was challenging?

Add your thoughts to the chat!

Questions?

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www.hennepin.us/building-reuse

