

# BEST MANAGEMENT PRACTICES

## CHICAGO'S GUIDE TO CONSTRUCTION & DEMOLITION CLEANLINESS & RECYCLING



City of Chicago  
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## OVERVIEW

This guide presents rules for construction site cleanliness and practical alternatives to conventional disposal of Construction & Demolition (C&D) material in the City of Chicago. The Best Management Practices (BMPs) presented focus on commercial C&D operations, but can also be applied to home projects and renovations. Each will assist in more efficiently conducting C&D recycling and will include:

- A description of the BMP
- Techniques for implementing the BMP
- Environmental benefits resulting from the BMP
- Considerations when implementing the BMP
- Cost-benefit analysis of the BMP in comparison with conventional methods, and
- Successful examples of the BMP

This guide is designed to provide instruction for and list the benefits of recycling C&D material, but is not all-inclusive. More detailed instructions and information can be found in the technical manuals listed in the appendix of this publication.

## FIVE EASY STEPS TO RECYCLE C&D MATERIALS!

### Step 1

#### Develop a C&D Management Plan

Sample C&D Management Plans can be found on the City of Chicago Department of Environment's website at: <http://www.cityofchicago.org/Environment/index.html>



### Step 2

Identify materials that can be recycled



### Step 3

Identify the recycler that will accept materials at the best price



### Step 4

Determine number, type, and size of storage areas/containers needed on the site

OR



Separate materials into dedicated containers on site



Arrange for Recycler pickup and segregation of mixed material



### Step 5

Establish pick-up plan with recycler

## TIPS FOR SITE CLEANLINESS

### TO AVOID A STOP WORK ORDER AND FINES YOU MUST OBEY THE FOLLOWING REGULATIONS

#### FENCE & SECURE JOB SITES:

All construction sites (except for on the public way) must be enclosed by a continuous chain link fence at least six feet high to be anchored sufficient to resist wind loads of 30 pounds per square foot. Construction site fences must have opaque fabric mesh securely attached that allows the passage of air but does not allow the passage of dirt and debris. Fabric mesh must be free from advertisements and cover the full height and length of the fence, including gated openings. You must immediately repair any damage to fence or fabric.

#### CONTROL DUST:

You must contain all on-site dust generated by sandblasting, demolition, rock crushing, bulldozing, etc. Keeping the area wet during processing will help to avoid excessive dust. Chutes, plastic tarps, and other measures may also be required.

For multiple story projects, contractors must enclose all floor perimeters with a fabric mesh that allows the passage of air but does not allow debris to blow off the floor. The fabric mesh must be free of advertisements. Until the building envelope is completed, contractors should also sweep all open floors daily and more frequently during high winds. For tuck pointing operations, the area of grinding shall also be enclosed to contain dust and debris. Equipment can be fitted with vacuum attachments to capture dust from grinding.

#### MANAGE ON-SITE WASTE:

Any on-site waste or debris left temporarily must be securely contained. Materials that may become windblown or disperse into the air must be secured and covered with a tarp or other covering. All other materials must be safely secured until they are hauled to a permitted waste-handling facility. Store construction materials, unused materials and materials awaiting disposal in a neat, orderly, and secure manner.

Three or more citations for violations of construction site cleanliness regulations can result in a stop work order at the site.

#### ALWAYS KEEP PUBLIC WAY CLEAR OF DIRT & DEBRIS:

You must keep the public way (streets, sidewalks, parkways) clean at all times. Ensure that dirt & debris are not spilled or transferred onto the public way by vehicles exiting the site. Ways to comply include, but are not limited to, use of a mechanical sweeper; stoning or paving haul roads; and wheel wash stations. Also make sure loads of building & demolition materials are secured and covered. Provide sealed trash containers at job sites for debris generated on site such as lunch-time debris or accumulated litter.

Empty containers daily or more frequently as needed to avoid overfilling. Store dumpsters behind your construction site fence unless you have been specifically permitted for public way use. Building refuse must not litter the construction or demolition site or neighboring areas. Construction & demolition debris must be removed from the site and taken to a permitted waste facility, or recycled in a timely manner.

## TIPS FOR SITE CLEANLINESS (CONTINUED)

### STANDING WATER:

No standing water is allowed on construction sites.

### RECYCLING COMPLIANCE:

Beginning in January 2006, construction and demolition sites (Permitted from Jan. 1, 2006 to Jan. 1, 2007) will be monitored to ensure that a minimum of 25% (by weight) of recyclable construction and demolition waste is recycled. All construction sites permitted after Jan. 1, 2007 will be monitored to ensure 50% (by weight) of recyclable construction demolition waste is recycled.

### PERMITS:

Contractors must obtain, and display on site, all necessary permits covering all aspects of the construction and demolition process. This includes all required public way permits. All required licenses must also be displayed.

### ILLEGAL DUMPING:

Even if you hire a hauler, you are legally responsible for removal & disposal of any waste your project generates. It must be taken to a properly permitted disposal, transfer, or recycling facility and disposal must be documented. Illegal dumping can result in fines of up to \$2,500 per day, vehicle impoundment (+ minimum \$700 impoundment fee), the loss of City contracts for those doing work for the City and community service and imprisonment.

### RODENT ABATEMENT:

Pre-demolition rodent abatement work is required. The general accumulation of debris or any conditions that would lead to feeding or harboring rodents must be prevented.

### NOISE:

Although noise pollution standards for construction and demolition may vary, a general rule of thumb is no motorized equipment or loud noises before 8:00 a.m. or after 9:00 p.m. No loading or unloading before 7:00 a.m. or after 10:00 p.m. Refer to section 11-4 of the Chicago Municipal Code for the noise ordinance.





## CLEAN CONSTRUCTION SITE CHECKLIST

- Do you have a continuous chain link fence at least 6 feet high?
- Do you have opaque mesh fabric affixed to the fence free from advertisements?
- Do you have sufficient sealed garbage containers stored behind the fence?
- Have you enclosed all floor perimeters with fabric meshing free from advertisements?
- Have you taken appropriate measures to contain dust and debris?
- Are construction materials being stored neatly and securely?
- Are work vehicles monitored to keep all dirt and debris off the public way?
- Is waste being removed on at least a daily basis?
- Have you provided proper toilet facilities?
- Are you recycling?  
*Jobs permitted between January 1, 2006 and January 1, 2007 must recycle 25% (by weight) of recyclable construction or demolition debris. Jobs permitted after January 1, 2007 must recycle 50% (by weight)*



## INTRODUCTION TO CONSTRUCTION SITE RECYCLING

Approximately one quarter of all waste generated in the Chicago metropolitan area consists of debris from construction and demolition projects (“C&D materials”). The City of Chicago has adopted an ordinance requiring contractors to recycle C&D materials. The recycling requirements take effect in January 2006.

In addition to the benefit of conserving raw materials and landfill space, recycling can help contractors maintain cleaner work spaces and even save money.

This Best Management Practices (BMP) manual provides information to contractors about recycling options and techniques.

The opportunities identified in this document are not inclusive. Contractors and households can refer to the success stories and techniques provided that best suit their individual needs. While it is the goal of these BMPs to address a growing environmental concern in the Chicagoland area, it is also the City’s goal to address your business needs and help businesses and households save money through C&D recycling.

Not only will these BMPs assist in reducing overhead costs and addressing environmental concerns, but they will also provide guidance in more efficiently managing C&D processes. Techniques and success stories in this guide will illustrate how to better manage work sites, improve the aesthetic appearances of work sites, and increase efficiency and environmental responsibility. The City believes that if adhered to, these BMPs can only improve the image of businesses and the City, making Chicago a preferred healthy place to live and work.

### WHY WE NEED TO REDUCE C&D WASTE

Environmentally, C&D create two major impacts: (1) Putting undue stress on limited landfill space, and (2) Causing unnecessary production and consumption of raw materials for construction and demolition activities. Furthermore, disposal of this material creates unnecessary financial impacts for businesses by: (1) creating increased disposal, transport and tipping fees for materials that can be either reused on-site or processed by a recycler, and (2) creating unnecessary expenses for new materials.



## STRESS ON LANDFILLS

There are currently 10 landfills in the Chicagoland area that accept C&D material. It is becoming evident that some of these landfills are approaching maximum capacity and will soon be unable to accept additional waste. By recycling and reusing C&D debris the longevity of these the landfills can be expanded.

## STRESS ON NATURAL RESOURCES

The use of new materials in construction processes can unduly stress on natural resources. As the rate of new construction grows, so does the mining and foresting industries' processing of raw materials. By reusing and recycling C&D material, the unnecessary consumption of raw materials can be controlled.

## INCREASED DISPOSAL FEES

By utilizing the BMPs discussed in this guide, construction companies can decrease expenditures from disposal of materials. Transportation and disposal fees are typically a considerable expense in any C&D project. As landfills accepting C&D debris reach maximum capacity, transportation and disposal fees will only increase as local C&D businesses are forced to transport their materials outside of the Chicagoland area for disposal. These costs can be reduced substantially by reusing appropriate materials on site.

## UNNECESSARY EXPENSES FOR NEW MATERIALS

Contractors often purchase new materials when responsible C&D waste management could yield a considerable amount of material acceptable for reuse. For this reason, if properly managed, the reuse of C&D materials can produce significant savings on materials for future projects.

Remember, some materials may be appropriate for reuse on site. If you intend to reprocess/crush materials and reuse them on site, you must obtain a permit from the Chicago Department of Environment. It is also important to know that the Chicago Municipal Code requires all unused reprocessed/crushed materials to be transported to a recycling or disposal facility.

The Municipal Code restricts the transfer of C&D materials to job sites other than the sites on which they were generated. In most cases, C&D materials transferred off-site must go to a recycling center or transfer station. The Municipal Code considers all C&D materials to be a "waste" handled in an appropriate manner.

### Did You Know?

*If you have no need for C&D material on future projects there are companies throughout the Chicagoland area that will buy reusable material from you for resale. Look into the resale of brick, stone, high quality woods and custom trim work!*





# BEST MANAGEMENT PRACTICES

## Did You Know?

*Due to expanding recycling technologies, materials traditionally considered not recyclable can be successfully reprocessed for both their former and new uses. Your C&D “waste” may be very valuable to someone else!*

### 1. Inventory materials that can be recycled

Before starting building or demolition activities take a physical inventory of all materials that will be encountered. Inventory should not be limited to known recyclable materials. Include all by-products resulting from either the construction or the demolition processes. When taking this inventory the contractor should note the following:

- Specific types of materials (i.e. red bricks, pavers, asphalt based roofing shingles, 2x12 lumber);
- Volumes of material expected;
- Condition of materials;
- Possible contamination by hazardous materials like asbestos or lead.

### 2. Identify the recycler that will accept materials at the best price

Once materials have been inventoried, research whether the material can conveniently be recycled in the Chicago area. This includes contacting recyclers with the materials inventory and assessing the recyclers’ ability to accommodate your needs. During this process it is important to remember that there are numerous C&D recyclers in the Chicagoland area, each specializes in different materials. If a recycler cannot accept your materials, refer to the Guide to Chicago Recyclers in the “Index & Resources” portion of this BMP guidebook. When discussing types of materials with potential recyclers, talk about

- Quality of the material;
- Type of handling considerations to be addressed;
- Volume of material the recycler can accommodate;
- Does the demolition contractor care about the end use?;
- How much the recycler will charge for their services.

Although it is important to identify a recycler that can address your needs, it is also important to find the most cost effective opportunity. There will undoubtedly be a number of recyclers to choose from: find the one that is fairly priced and offers a reliable service.

## Did You Know?

*The Illinois Department of Economic Opportunity has created a guide to C&D Recyclers, making it easy for you to find a recycler in your area. Chicago recyclers are listed at the end of this guide.*



### 3. Determine Benefits

After identifying recyclable materials and a recycling company that can address your needs, determine the economic and environmental benefits of recycling your C&D material. To do this you should first estimate costs for traditional disposal by taking the following into account:

- Labor or fees involved with disposal;
- Transportation fees for C&D material, including but not limited to gas and mileage; and
- Tipping fees for landfilling or disposal at a transfer station.

Once these costs have been accounted, compare them with recycling fees and associated costs for recycling. When performing your cost-benefit analysis it is recommended to account for the resale of materials and savings on future projects resulting from the reuse of materials.

In addition to cost savings, you should also examine the incentives associated with recycling C&D material. This includes becoming more competitive because of your commitment to the environment and becoming more attractive to private sector clients because of your environmental stewardship. Also, the United States Green Building Council (USGBC) has a certification program called Leadership in Energy and Environmental Design (LEED) for which you may be eligible. Visit [www.USGBC.org](http://www.USGBC.org) for more information.



#### Did You Know?

*There are a variety of grants and trade groups whose services and benefits are available to companies practicing environmentally responsible business practices. Participation in these groups not only makes your company more visible in the private sector, but also to municipalities seeking businesses to perform C&D work.*

#### 4. Determine storage needs for the project

After finding a recycler or recyclers that can address your needs, it is important to prepare a plan for the on-site storage and separation of C&D material. This includes identifying how and where recyclable C&D materials will be contained on site. When considering these factors it is important to account for:

- **Ease of use:** Ensure that containers are easily accessible by workers
- **Safety:** Ensure that the containers and storage can be conducted in a safe manner including limiting public access to the site, and
- **Aesthetics:** Ensure that the site appears orderly and will not raise concern from local residents or businesses

Once locations for containers have been chosen, decide which disposal techniques best suit you and the recycler. For this decision there are two options:

- **Arrange for all recyclable material to be stored in one roll-off container:** This option involves all recyclable materials stored in one roll-off container to be separated at a later date by the recycler;
- **Separate materials into dedicated containers on site:** This option involves using separate containers for each material.

Determining your storage options should be a decision you make with your contracted recycler. Some recycling companies may not have the ability to separate materials after pickup, which would require you to separate the materials on-site. Also, there are some forms of C&D waste that may contaminate the other recyclable C&D materials, making it inappropriate for recycling and requiring separate containerization.

#### 5. Establish a pick-up plan with recycler

Once a material separation and storage plan has been created, establish a pick-up plan with your recycler. In the event that the recycler is unable to pick up C&D material, find a hauling facility that can address your needs. When establishing a pick-up plan, it is important to consider:

- **Schedule:** This can be either at a pre-agreed upon time or per your requests; however, materials should be removed from the site in a timely manner;
- **End-use:** You should ensure that the hauler is delivering C&D material to the proper recycling destination and not to a landfill.

## 6. Educate your employees

After all logistical plans have been established for the separation, storage, and recycling of C&D material, inform your employees and contractors of new operating procedures. Make sure they understand not only how to properly recycle C&D material, but why they are recycling C&D material. Educating employees will allow them to assist in choosing which materials are suitable for recycling, and which materials can be reused on future projects.

When educating employees how to recycle C&D material, consider:

- Potential language barriers, and make a plan for overcoming them;
- Oversight and ensuring reusable and recyclable materials are properly separated;
- Special training for the foreman or manager responsible for performing;
- Educating new employees if your operation has a high turnover rate; and
- Informing your employees that recycling C&D has both environmental and financial benefits.



# C&D RECYCLING WORKSHEET

## STEP 1: Estimate the Total Project Waste, including all materials:

Size of Waste Containers (cubic yards)	Number of Waste Containers	Number of Containers Per Month	Total Waste Generated Per Month	Months of Project	Total Project Waste
cy	(x)	(x)	= cy	(x)	= cy

## STEP 2: Estimate Amount of Recyclable Material:

Material	Commercial Construction Debris (by weight)	Residential Construction Debris (by weight)	Current Project Estimate (% volume)	Cubic Yards (multiply % volume from total project waste from Step 1)
A. Wood Waste			%	cy
B. Corrugated Cardboard			%	cy
C. Gypsum Drywall			%	cy
D. Scrap Metal			%	cy
E. Brick			%	cy
F. Stone			%	cy
G. Asphalt Grindings			%	cy
H. Recyclable Material			%	cy

## STEP 3: Estimate Cost Effectiveness of Recycling:

Material	Cubic Yards (from Step 2)	Cost to Recycle (multiply by cubic yards)	Additional Costs (labor, sorting transportation)	Cost to Recycle (per cubic yard)
A. Wood Waste		(x)	(+)	=
B. Corrugated Cardboard		(x)	(+)	=
C. Gypsum Drywall		(x)	(+)	=
D. Scrap Metal		(x)	(+)	=
E. Brick		(x)	(+)	=
F. Stone		(x)	(+)	=
G. Asphalt Grindings		(x)	(+)	=
H. Recyclable Material		(x)	(+)	=

## STEP 4: Calculate Net Benefit or Cost:

Material	Cubic Yards (from Step 2)	Multiply by Cost per Cubic Yard for Landfilling	Cost for Transportation Cost to Landfill	Subtract Cost to Recycle	Net Benefit of Cost to Recycle
A. Wood Waste		(x)	=	-	=
B. Corrugated Cardboard		(x)	=	-	=
C. Gypsum Drywall		(x)	=	-	=
D. Scrap Metal		(x)	=	-	=
E. Brick		(x)	=	-	=
F. Stone		(x)	=	-	=
G. Asphalt Grindings		(x)	=	-	=
H. Recyclable Material		(x)	=	-	=

# GUIDE TO RECYCLERS IN THE CHICAGOLAND AREA

## South

**Adams Brick Company**  
2671 E. 100th St., Chicago  
Ph. (773) 221-4223  
Material: Brick

**Brandenburg Industrial**  
2625 S. Loomis St., Chicago  
Ph. (312) 326-9208  
Material: Concrete

**Central Blacktop Co.**  
6301 S. East Ave., Hodgkins  
Ph. (708) 482-9660  
Material: Asphalt

**Crowley-Sheppard Asphalt Co.**  
6525 99th Place, Chicago Ridge  
Ph. (708) 499-2900  
Material: Asphalt

**Gallagher Asphalt**  
18100 S. Indiana Ave., Thornton  
Ph. (708) 877-7160  
Material: Asphalt

**K-Five Construction Corp.**  
13769 Main St., Lemont  
Ph. (630) 257-7779  
Material: Asphalt & concrete

**Lincoln Paving Co.**  
1300 W. 171st St., Hazel Crest  
Ph. (708) 335-2323  
Material: Asphalt & concrete

**JR Metals & Recycling, Inc.**  
616 S. Kolmar, Chicago  
Ph. (773) 722-9620  
Material: Cans

**Vanek Bros.**  
3920 S. Loomis, Chicago  
Ph. (773) 254-5099  
Material: Asphalt & concrete

**Shamrock Material Corp.**  
1819 W. 119th, Chicago  
Ph. (773) 238-8580  
Material: Asphalt & concrete

**Building, Salvage, & Construction**  
2422 S. Halsted, Chicago  
Ph. (312) 326-9208  
Material: Plywood, bridge timbers, structural timber

**E-Z Tree Recycling**  
7050 S. Dorchester Ave., Chicago  
Ph. (773) 493-8600  
Material: Trees

**National Waste Services**  
2608 S. Damen, Chicago  
Ph. (773) 579-3600  
Material: Wood

**TRDA Wood Products**  
11295 Lemont Rd., Lemont  
Ph. (630) 739-5684  
Material: Wood

**Groen Waste**  
13701 S. Kostner, Crestwood  
Ph. (708) 389-6389  
Material: Asphalt, concrete, brick, wood, OCC, & drywall

**Homewood/NuWay/Star Disposal**  
17415 S. Ashland Ave., Hazel Crest  
Ph. (708) 798-1004  
Material: Asphalt, concrete, brick, wood, OCC, & metals

**K & R Service**  
10000 S. Melvina, Oak Lawn  
Ph. (708) 424-6443  
Material: Asphalt, concrete, brick, wood, drywall, & OCC

**Land & Lakes Co.**  
138th & Cottage Grove Ave., Dolton  
Ph. (773) 264-8508  
Material: Wood & OCC

**N. Chicago Plank & Pine**  
2422 S. Halsted St., Chicago  
Ph. (312) 421-2871  
Material: Structural timber, plywood, terra cotta, & architectural artifacts

**Container Recycling Alliance**  
10330 S. Woodlawn, Chicago  
Ph. (773) 995-9850  
Material: Glass

**Resource Center-Railyard**  
1325 E. 70th St., Chicago  
Ph. (773) 493-1470  
Material: Cans, glass, paper, & cardboard

**Smurfit Recycling Company**  
626 E. 111th St., Chicago  
Ph. (773) 264-3516  
Material: Paper & cardboard

**Loop Paper Recycling**  
2367 S. Laffin, Chicago  
Ph. (312) 942-0042  
Material: Paper & cardboard

**ACME Refining**  
3357 S. Justine, Chicago  
Ph. (773) 523-4500  
Material: Scrap iron & metal

**ABCO Metal**  
1020 W. 94th St., Chicago  
Ph. (773) 881-1504  
Material: Scrap metals

**Metal Management Midwest**  
3200 E. 96th St., Chicago  
Ph. (773) 731-6789  
Material: Metals

**ELG Metal**  
10300 S. Calumet, Chicago  
Ph. (773) 374-1500  
Material: Stainless steel scrap

**Recycling Services**  
3301 W. 48th Place, Chicago  
Ph. (773) 472-2618  
Material: Paper products

**Edco Recycling**  
8224 S. Vincennes, Chicago  
Ph. (773) 9873-1600  
Material: Aluminum, copper & brass

## North

**D & M Roll-off Service**  
10 Court of Greenway, Northbrook  
Ph. (847) 419-1416  
Material: Concrete

**Orange Crush, L.L.C.**  
3219 Oakton St., Skokie  
Ph. (847) 677-7780  
Material: Asphalt, concrete & grindings

**Disposal Management Systems**  
420 Cutters Mill Ln., Schaumburg  
Ph. (847) 884-7676  
Material: Concrete, brick, wood, steel, & OCC

**Renovation Source, Inc.**  
3512 N. Southport Ave., Chicago  
Ph. (773) 327-1250  
Material: Decorative materials, doors, & door hardware

**Gus and Sal's Recycling**  
1334 N. Kostner, Chicago  
Ph. (773) 252-1989  
Material: Cardboard

**Safran Metals, Inc.**  
1685 N. Elston, Chicago  
Ph. (773) 276-3400  
Material: Cans

**Resource Center-North Park**  
5801 N. Pulaski, Chicago  
Ph. (773) 821-1351  
Material: Cans, glass, paper, & cardboard

**City Scrap Metals**  
1815 N. Kingsbury, Chicago  
Ph. (312) 664-4111  
Material: Scrap metals

**J & S Metals**  
4700 W. Belmont, Chicago  
Ph. (773) 283-7377  
Material: Scrap metals

**Mahzel Metals**  
325 N. Elizabeth, Chicago  
Ph. (312) 733-5500  
Material: Scrap metal & aluminum

**Northwest Paper Company**  
4519 W. Patterson, Chicago  
Ph. (773) 545-7560  
Material: Paper products

**General Iron Industries**  
1909 N. Clifton, Chicago  
Ph. (773) 348-7053  
Material: Scrap iron

**Midwest Wrecking Company**  
2129-49 W. Hubbard, Chicago  
Ph. (312) 666-1043  
Material: Deconstruction (demolition material)

**Serlin Iron & Metal**  
1810 N. Kilbourn, Chicago  
Ph. (773) 252-1075  
Material: Scrap iron & metals

**T & Z Metals**  
4009 W. Parker, Chicago  
Ph. (773) 862-1440  
Material: Scrap metals

**Bricktown Metals Co.**  
6449 W. Grand, Chicago  
Ph. (773) 804-1333  
Material: Scrap metals

**Ravenswood Disposal**  
221 N. Washtenaw St., Chicago  
Ph. (773) 222-3043  
Material: Asphalt, concrete, brick, & wood

## West

**D & P Construction Company Inc.**  
2035 Indian Boundary, Melrose Park  
Ph. (708) 681-9431  
Material: Concrete

**Delta Demolition**  
1230 N. Kostner, Chicago  
Ph. (773) 252-6370  
Material: Brick

**Reliable Asphalt**  
3741 S. Pulaski, Chicago  
Ph. (773) 254-1121  
Material: Asphalt & concrete

**Chicago Scrap Iron & Metal**  
4555 W. Grand, Chicago  
Ph. (773) 533-4200  
Material: Cans

**Davin Industries**  
2627 Henke Place, Elk Grove  
Ph. (847) 296-0077  
Material: Wood waste

**BF1**  
5050 W. Lake St., Melrose Park  
Ph. (708) 345-7050  
Material: Asphalt, brick, concrete, wood, OCC, & scrap metal

**Van Ryn Scavenger Service Inc.**  
4319 Butterfield Rd., Bellwood  
Ph. (708) 544-1217  
Material: Brick, concrete, asphalt, wood, drywall, carpet, & OCC

**Murco Recycling Enterprises Inc.**  
347 N. Kensington St., LaGrange Park  
Ph. (708) 352-4111  
Material: Reusable materials

**Lindahl Brothers Inc.**  
3301 S. California, Chicago  
Ph. (773) 523-3737  
Material: Concrete

**J & R Metals & Recycling, Inc.**  
616 S. Kolmar, Chicago  
Ph. (773) 722-9620  
Material: Scrap metal  
**Kaplan Salvage, Inc.**  
317 N. Francisco, Chicago  
Ph. (773) 588-0300  
Material: Scrap metal

**Tri-State Scrap Metal**  
1745 W. Fulton, Chicago  
Ph. (312) 226-7465  
Material: Scrap metal

**Mid-American Paper Recycling**  
3865 W. 41st St., Chicago  
Ph. (773) 890-5454  
Material: Paper products

**Strategic Materials, Inc.**  
3717 S. Albany, Chicago  
Ph. (773) 523-2200  
Material: Metals

**Wright Recycling, Inc.**  
5360 W. 55th St., Chicago  
Ph. (800) 732-2218  
Material: Aluminum, scrap, copper & brass

**Huron Paper Stock**  
2545 W. Fulton, Chicago  
Ph. (312) 829-7456  
Material: Corrugated, paper waste

**J & B Scrap Metals**  
2910 W. Carroll, Chicago  
Ph. (773) 533-4200  
Material: Scrap metals

**Marcells Paper & Metal**  
4221 W. Ferdinand, Chicago  
Ph. (773) 265-1200  
Material: Metals, paper products

**Universal Scrap Metal**  
2500 W. Fulton, Chicago  
Ph. (312) 666-0011  
Material: Scrap metals

**American Metals Company**  
2420 W. Cermak, Chicago  
Ph. (773) 927-0060  
Material: Scrap metals

Note: This list is not all inclusive; additional recyclers may be available. The City of Chicago does not officially endorse these facilities CDOE is not legally liable for the quality or price of their services.

Visit [www.cityofchicago.org](http://www.cityofchicago.org) for more information.

## SUCCESS STORIES

*The following examples illustrate the economic and environmental benefits of C&D Recycling. Each project used different project specific techniques and utilized the BMPs outlined in the previous section.*

### **Ford Motor Engineering Center, Evanston, Illinois**

The Ford Motor Engineering Center is a new 85,000-square-foot building on the Northwestern University Campus that will be completed in 2005. As of late 2004, the Ford Center's contractor, Turner Construction, had diverted from landfills 89% of the debris generated on the site. Most of this debris consisted of clean wood from the cast-in-place concrete operation. The contractor also plans to divert concrete, paper cardboard, mason and metals and expects a total diversion rate of 75% with negligible cost impacts.

### **Sears Catalogue Warehouse, Chicago, IL**

The Sears Catalogue Warehouse was a timber and brick structure previously located on Chicago's West Side. The 9-story, 3 million square-foot building was dismantled to make way for the Homan Square Project. During dismantlement 23 million bricks and more than 10 million board feet of lumber were re-used or sold for future projects.

Nearly 100% of C&D material was recycled. The savings on disposal fees exceeded \$1 million, with additional savings from the resale of reusable material resulting from demolition.

### **22nd District Police Station, Chicago, Illinois**

The 22nd District Police Station was completed in June 2004 to Leadership in Energy and Environmental Design (LEED) construction standards. The City eventually hopes to obtain a silver LEED rating for the station. When construction began on the project, the City and its contractor, Castle Construction, aimed to divert at least 50% of the landscape and construction debris. The City found diversion to be easier than expected, and its final diversion rate was nearly 92%. This diversion rate was accomplished with minimal cost impacts. All of the debris was taken to the Land and Lakes landfill in Matteson, Illinois, where it was sorted and then sent to other appropriate facilities.



*Ford Motor Engineering Center  
Construction Site*



*Sears Warehouse Construction Site*



*22nd District Police Station*

### Center for Green Technology (CCGT), Chicago, IL

The CCGT was certified as LEED Platinum by the United States Green Building Council (USGBC), a program to certify environmental design and construction. During development, a recycling plan was developed to separate C&D material into dumpsters on-site. C&D material was then taken to transfer stations for further separation and recycling. This recycling plan allowed for 80% of all C&D material to be either recycled or reused. The site was formerly an illegally operating C&D recycling facility.

When the City obtained the site there was 600,000 cubic yards of mixed C&D debris that had to be moved for redevelopment. Recycling this material rather than landfilling saved \$9 million, and crushing stone product and reusing it in redevelopment of the site saved an additional \$2 million.

### Searle Warehouse Deconstruction, Skokie, IL

A 35,000 square foot, single story warehouse on the Searle campus was removed to accommodate construction of a new chemistry lab. Materials removed and recycled as part of the dismantlement included about 1.1 million pounds of metal and 1.4 million pounds of solid fill materials (brick, concrete, etc.). The estimated overall recycling rate was 72%, yielding a net savings of approximately \$53,000.



*CCGT Site Before*



*CCGT Site After*



# CALL 311 FOR INFORMATION ABOUT CONSTRUCTION SITE CLEANLINESS AND RECYCLING OR VISIT [WWW.CITYOFCHICAGO.ORG](http://WWW.CITYOFCHICAGO.ORG)

## INDEX OF RESOURCES

**Illinois Environmental Protection Agency**  
[www.epa.state.il.us](http://www.epa.state.il.us)

**Illinois Recycling Association**  
[www.illinoisrecycles.org](http://www.illinoisrecycles.org)

**U.S. Green Building Council**  
[www.usgbc.org](http://www.usgbc.org)

## CONTACT INFORMATION

**Chicago Department of Environment**  
30 N. LaSalle Street, Suite 2500  
Chicago, Illinois 60602  
(312) 744-7606  
[www.cityofchicago.org/environment](http://www.cityofchicago.org/environment)

**Public Building Commission of Chicago**  
Richard J. Daley Center, Room 200  
Chicago, Illinois 60602  
(312) 744-7606

**Department of Construction and Permits (DCAP)**  
City Hall  
121 N. LaSalle Street, Room 900  
Chicago, Illinois 60602  
(312) 744-3449

**Department of Buildings**  
City Hall  
121 N. LaSalle Street, Room 500  
Chicago, Illinois 60602  
(312) 744-3400

**Department of Streets and Sanitation**  
City Hall  
121 N. LaSalle Street, Room 700  
Chicago, IL 60602  
(312) 744-4611



Recycled Paper