

County of San Diego C&D Update



SUMMER 2010

SPECIAL POINTS OF INTEREST:

- **Stucco Recycling?**
Try J Cloud in El Cajon
- **New CalGreen Building Standards** begin January 2, 2011 (see inside for details)
- **Call 1-877-R-1-Earth** to learn where to recycle anything!

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How Much Construction Debris is Actually Recycled in Unincorporated San Diego?

Since July of 2007, the County has been keeping track of all the Construction and Demolition (C&D) Debris recycled in the unincorporated area. There are two ways in which this is done. One, recycling data are collected from franchised haulers and two, recycling data are collected directly from the recycling reports provided by the builders. The data provided by the builders are in most cases self haul or hauled by sub-contracted C&D waste haulers. The two data sources are combined to get the recycled C&D totals.

In 2007, 25,705 tons of C&D material was recycled in the unincorporated county. In 2008, 27,283, and in 2009, 26,716 tons were recycled (Figure 1). Staff and industry experts believe there is more recycling than this, however, not all builders are reporting their recycling.

Additionally, the County has data on the type of material being recycled. See Tables 1 and 2. These tables illustrate the percentages of material types recycled by both franchised haulers and non-franchised C&D haulers.

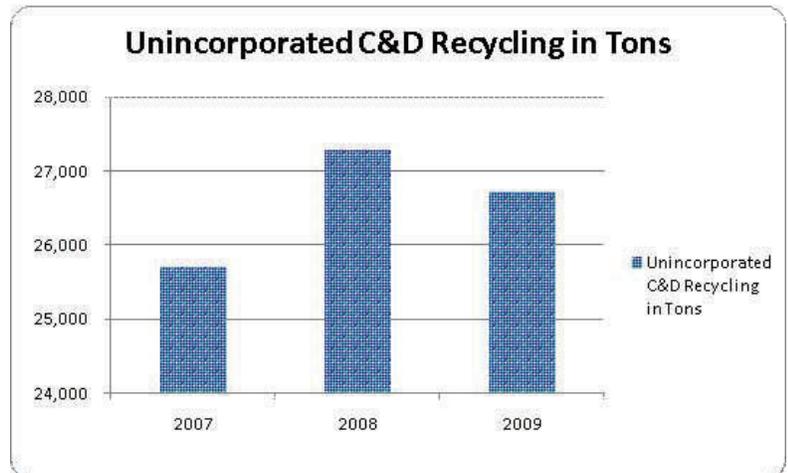


Table 1. C&D Recycled by Franchised Haulers

Mixed C&D	39%
Concrete	35%
Dirt	8%
Asphalt	8%
Wood	6%
Green	2%
Metal	2%

What is clear is that non-franchised C&D haulers show a higher rate of source separated materials (with concrete at 38%) and less mixed C&D. Franchised haulers show a higher rate of mixed C&D (38%). The County will continue to collect C&D data to further our knowledge base.



Table 2. C&D Recycled by Non-Franchised C&D Haulers

Concrete	38%
Plaster	18%
Wood	16%
Slurry	16%
Mixed C&D	10%

Reuse Resources



There are many reuse resources in San Diego County. Reusing building materials not only offers builders a way to get

rid of their materials cheaply and meet the C&D ordinance requirements, but also allows them to save money and resources by reusing building

materials such as wood and metal. Here are a few reuse resources in the San Diego area:

The Reuse People
<http://thereusepeople.org/>
 (858) 583-7081

Deconstruction and Reuse Network
<http://www.reusenetwork.org/>

<http://www.facebook.com/ReuseNetwork>

CalMax
<http://www.calrecycle.ca.gov/CalMAX/Ad/default.aspx?Partner=SanDiegoMax>

Habit for Humanity—ReStore
<http://www.habitatsdiego.org/restore.php>
 619-516-5267

Green Beach
<http://www.greenbeachamerica.org/>
 619-260-1700

If you are a reuse business and are not listed here, please contact us at 858-874-4285.

“All in all, 253 tons of material were recycled from the new Otay Mesa FedEx building.”

Success Story: Lusardi Construction

Lusardi Construction Company of San Marcos is a true C&D recycling success story. Lusardi followed the requirements of the C&D Recycling Ordinance to the letter and by doing so, met all of the County's recycling goals set forth by the ordinance.

The large commercial FedEx building located at 10132 Airway Road near Otay Mesa is 133,000 square feet. One hun-

dred percent of inert materials were recycled and 61% of all other materials were recycled. All other material went to SANCO in Lemon Grove, whose current recycling rate is 61% (late 2009). All in all, 253 tons of material was recycled from this one building.

Lusardi met all of the County's reporting requirements and provided

a professional and timely final report.

Great job Lusardi!



Photo obtained from Lusardi website.

“Explaining the intersection between the built environment and technology.”

West Coast Green Conference



West Coast Green 2010 is on September 30th through October 2nd at San Francisco's Fort Mason Center.

The West Coast Green experience is a feast of innovations, ideas and opportunities designed to expand your

business, widen your vision, and stimulate your thinking with the latest best practices and key players in **building, business and design.**

Each year the conference has grown to meet the

needs of industry leaders, practitioners and homeowners; this year the conversation will deepen to include a focus on the intersection of the built environment and technology. And, we're also including emerging products within the Cleantech sector that have the greatest ability to reduce global warming such as solar, wind and waste reduction.

Cal Green:

Understanding California's New Green Building Code

Attention all building and construction trades and professions! Public and Private Sectors.



"This has been billed as the most stringent building code in the country, so I was interested to know how it would interact with our LEED projects - clearly, our clients are asking. I've learned from today that it's really going to be pretty simple. I'm not the least bit afraid of this."

Katrina Rosa,
Director of Sustainability, Ecologic Studio

CALGreen becomes Mandatory January 2, 2011

How will it Impact YOU?

Effective January 2, 2011, these new comprehensive regulations offer a blueprint for a new generation of healthy, efficient buildings, with benefits for occupants as well as for the environment. All newly constructed residential, commercial, school and hospital buildings must comply with the new requirements.

In cooperation with the Building Standards Commission and

the Department of Housing and Community Development, Green Technology is providing seminars throughout the state to introduce and orient each trade and profession around the new code.

Upcoming Seminars
Limited Seating

San Bernardino
9 September

Los Angeles
14 September

Each attendee will receive a certificate of attendance. AIA members can also receive 3 AIA continuing education units.

<http://www.greentechnology.org/calgreen/>
Or
Call 626.577.5700

New mandatory measures address planning and design in the areas of site development; water efficiency and conserva-

tion for both indoor and outdoor water use; energy efficiency; material conservation and resource efficiency including water resistance and moisture management; construction waste reduction, disposal and recycling; building maintenance and operation; pollutant control; indoor moisture control; indoor and outdoor air quality; and environmental comfort.

This series of regional half-day seminars, developed in cooperation with the California Building Standards Commission and the California Department of Housing and Community Development, will provide an overview of the new mandatory standards, voluntary tier structure, compliance checklists and code publication dates. In addition, speakers will provide answers to your specific code questions.

*All content from CalGreen website.

Great Job Builders!

Many builders are finding it is simpler, and in most cases cheaper, to recycle their construction debris rather than landfill it. As long as a daily log is maintained and all debris and recycling receipts are filed, reporting to the County is easy. Many builders have diligently recycled and reported so. Of those who met the recycling requirements of the County, the overall recycling rate has reached an average of 85%.

Keep up the good work!



Tip: Make sure the project address is written on all receipts at the facility, rather than after the fact.

Tip: Keep a daily log of all materials and keep all receipts!

Asphalt Shingle Recycling

By Mike Wonsidler and Lee Buby

LEED Recycling's ground asphalt product has been used in farms, nurseries, and landfills for temporary and permanent road surfaces.

Approximately 11 million tons of waste asphalt roofing shingles are generated in the U.S. per year. It is estimated that San Diego County contributes over 85,000 tons of asphalt shingles to this total. With almost a third of the waste material resulting from the Construction and Demolition (C&D) industry being land-filled, ten of the nineteen jurisdictions in San Diego have enacted requirements to recycle C&D debris. With those requirements in place, and no recycling option available for roofing waste, LEED Recycling began recycling asphalt shingles in 2009.

Asphalt roofing shingles are



made of a felt mat saturated with asphalt, with small rock granules added. Roofs of asphalt shingles are replaced, on average, every 20 years. The majority of waste shingles are tear-offs from re-roof jobs or demolition debris. The load may contain contaminants, such as nails, and wood if the underlying plywood is also replaced. To prepare shingles for use in new products, the shingles must be ground to a specified size, and contaminants, such as wood and metal, must be separated.

Unlike recycled asphalt pavement, which resembles crushed gravel, the high as-

phalt binder content in shingles allows the material to be easily spread and compacted into an economical, high-performing, dust-free, temporary or permanent road surface. The material doesn't need repeated watering, doesn't track off-site like gravel or dirt, and can be reclaimed and reused.

LEED Recycling's ground asphalt product has been used in farms, nurseries, and landfills for temporary and permanent road surfaces. Farms are particularly well-positioned to

benefit from the use of recycled asphalt shingles. The equipment most farmers have on-hand to maintain their existing roads can be used to self-install the product and the cost and water savings resulting from the installation provide significant benefits. Be Wise Ranch is one farm in San Pasqual Valley that has used over 400 tons of the product for road surfaces on their farm and has requested another 800 tons in the near-term. The owner cites the performance characteristics, ease of installation, and affordability of the product as indisputable factors that led to his purchase decision.

Obviously, the landfill diversion and true recycling of thousands of tons of waste from our landfills is a significant incentive to encourage the use of this product. But, arguably, the

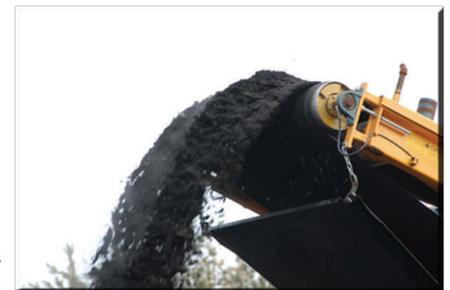
best part about using recycled asphalt shingles as road surface



is the cost. Even when using a paving contractor to install the material, the cost is less than half that of using hot-mix asphalt pavement to achieve similar performance.

Looking toward the future, local government and industry are reviewing the successful results from cities and states that are directly incorporating this material into their hot-mix asphalt blends as an inexpensive source of liquid asphalt, the major cost driver of paving mixtures. In these areas, performance is consistent with, if not better than, virgin hot-mix asphalt with significant cost reductions.

For additional information, please contact LEED Recycling at (858) 550-0919.





County of San Diego Recycling

5469 Kearny Villa Road, Suite 305
San Diego, CA 92123
MS - 0385
Phone: 858-874-4285
Fax: 858-874-4058

The County of San Diego Recycling Section aims to preserve precious landfill space, conserve natural resources, save water and energy, decrease pollution, increase jobs, and strengthen the economy.

The County of San Diego Recycles! It's in Our Nature!

Please contact Stephanie Ewalt for further information or if you would like to be removed from the distribution list.

(858) 874-4285 or
Stephanie.Ewalt@sdcountry.ca.gov



Where to Recycle? Use our Database!



Easily recycle and properly dispose of construction, toxic and other materials by using our convenient database. Almost anything can be recycled. Our extensive database includes items ranging from cans and bottles to appliances and construction materials.

Just visit the website anytime:

www.wastefreesd.org

Fill in the information including what material you wish to recycle and we'll tell you where to find a recycling center near you!

No computer? You can call the hotline:

1-(877)-R-1-Earth.

The friendly staff will assist you with your questions regarding where to recycle.

Hotline is open

Monday—Friday 8 a.m.—5 p.m.