

Sarasota County - Construction and Demolition Recycling Through Program Incentives

April 28, 2008

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4	TOM GERIAK	SECRETARY	FLORIDA GREEN BUILDING COALITION	941-270-0473	TOMG@PIMALLUMBER.COM
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9	Stephen Schwegart	Account Manager	Captain Jack's LLC dba. Gary's Hauling	941-747-2539	Steve@CaptainJackshauling.com
10	Wendy COOPER	Developer, CONSULTANT	Green Home Building Pro, INC.	941-349-0777	wendy@greenhomebuildingpro.com
11	Sandra Washington	manager KSCB	Keep Sarasota County Beautif.	941-861-6733	swashing@scgov.net

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	Name	Title	Organization Name: City or County	Phone Number	E-mail Address
12	Tim Knight	Dir. of Const.	John Cannon Construction Sarasota	941-361-1403	TKnight@johncannonconstruction.com
13	Gary Bennett	Solid Waste General Manager	Sarasota County Environmental Services	941-861-1587	gbennett@scgov.net
14	Jesse White	Owner	Sarasota Architectural Salvage	941-362-0803	Jesse@rmgr.us
15	Steve Crawford	District Manager	WASTE MANAGEMENT / RIA	904-753-1482	SCRAWFOR@WM.COM
16	Nina Powers	Education Specialist	Sarasota County Sustainable Sarasota	861-6705	npowers@scgov.net
17	Jaime DiDomenico	President	N+M Cooling/HVAC	915-4420	jaime@nmcool.com
18	Mike Gabhart	Environmental Compliance General Manager	WCA of Florida	628-4005	mgabhart@wcaamerica.com
19					
20					
21					
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Sarasota County I-Grant Construction and Demolition Pilot Program
Builder Exit Interview Survey and Answers

Survey Question	Vision Homes (Nemec Construction)	John Cannon Homes	John Cannon Construction	Fred M. Starling	Tandem Construction
What did you think of the source-separated program?	Not effective for residential construction. Volumes too low or created over too long a period of time.	A good start. We have to start preserving.	Great concept. On this job not much more than concrete to recycle and lunch waste.	Worked pretty well.	Surprised how much material can be saved; tracking dumpsters really shows how much was saved
What did you think of the rebate program as an incentive program for source separation?	Nice gesture, but not worth the effort.	A good tool to get people's attention.	Concrete already provides incentive because it costs less than disposing in the landfill. Rebate not necessary (for concrete).	Will be required to get wide participation.	Helps to understand importance of recycling and what happens to materials
If you used the WasteCap TRAC database, what did you think of the reports section, waste management plan, recycling report, environmental benefits report?	Nice. Could be used in advertising to show particular builder is helping to keep C&D waste out of landfills.	It might be a good tool for the Marketing Department, not for use in the field.	I did not use this.	N/A	Reports will help estimate future projects
Job-site education and support by Beth Connor?	Worked very hard to educate people on the site. For program to be effective, builders would have to agree to standardize how and what to separate. Subcontractors would then get used to the process.	Very helpful. Explained to onsite contractors what to do and why.	Positive feedback: helpful to have person reinforcing what we were trying to accomplish.	She was persistent. Person needs the support of job supervisors.	Dedicated, educated, organized. Explaining end point of things opened workers' eyes
C&D Guide outline and industry need?	DNA	Needs more detail.	DNA	There is great need.	So much more can be done. Need to get word out to all construction companies. Guides help improve.
Roll-off signs, participation signs, and carts?	The carts were nice. Signage was good. Need to find better way to attach them to the different containers.	The BIGGER, the BETTER. Bi-lingual is a MUST.	Carts not helpful because could not get them emptied. Participation sign was great. Roll-off signs overlooked.	Good start; more is better.	Signs provided too small, so made our own out of metal. Signs recycled at end of project because they were battered.
Case Study/Project Binder:	Completed and delivered to builder.	Completed and delivered to builder.	Completed and delivered to builder.	Completed and delivered to builder.	Completed and delivered to builder.
Can you provide us a quote for your case study and the Builder Guide about C&D recycling?	"I hope this program can be successful and effective in helping to reduce the impact that construction makes on landfills."	"It was quite interesting and educational. We all know that there is a lot of waste in construction. Getting it separated and trying to benefit by lowering cost for disposal and recycling of materials is the key."	"C&D recycling is essential for our industry and is the responsibility of each contractor and subcontractor. As contractors, we need to be proactive and not wait for governing authorities to dictate how we should run our recycling programs."	"I hope this type of recycling flourishes."	"Recycle - it doesn't hurt."

Sarasota County I-Grant Construction and Demolition Pilot Program
Builder Exit Interview Survey and Answers

Survey Question	Vision Homes (Nemec Construction)	John Cannon Homes	John Cannon Construction	Fred M. Starling	Tandem Construction
Do you think the County should offer technical support items like the ones in this pilot program or additional ones to all builders in the County? If so, which ones. Answer Yes or No beside each one. All builder responses will be tabulated.					
Job site support such as job-site education or contractor education at a central location (i.e., contamination, illegal dumping, food waste separate from C&D debris)	Yes	Yes	No	Yes	Yes
Job site promotionals (onsite rewards for contracting staff)	Did Not Answer/DNA	Yes	DNA	Yes	Yes
Would builders procure these promotionals to reward contracting staff?	No	No	Yes	Yes	Yes
Recycling participation signs for construction sites?	DNA	Yes	Yes	Yes	Yes
Roll-off signage or artwork for collection containers?	Yes	Yes	Yes	Yes	Yes
Rebate or reduced tipping fee for source separated recyclable materials?	Yes	Yes	Yes	Yes	Yes
Educational material (guides, brochures)?	Yes	Yes	No	Yes	Yes
Information on their website specifically for C&D waste management and recycling?	Yes	Yes	Yes	Yes	Yes
WasteCap TRAC database?	Yes	Yes	No	N/A	Yes
C&D workshop for the building industry in Sarasota County?	Make this workshop count as CEU credits	Yes	Yes	Yes	Yes
C&D recycling awards program for builders and contractors?	Could be used in advertising.	Yes	Yes	Yes	Yes
Other, please make any recommendations you deem appropriate below.	Find companies that are willing to take more products without being incredibly particular of the cleanliness, type, and volume of separated items.	DNA	DNA	Good beginning. Will take time, education, incentives and/or penalties for noncompliance.	DNA

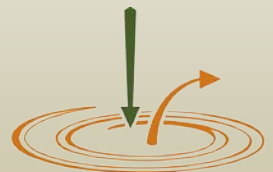
Sarasota County

IG8-02

***Building Blocks to Increase C&D Recovery
Through Program Incentives***
Project Results for Committee Members

June 2010

Miriam Zimms, Project Manager
Maureen Schaefer, Research Analyst



Assess Local C&D Infrastructure

- Facilities
 - 5 surveyed
- Tipping Fees
 - Gathered
- Haulers/Vendors
 - Identified

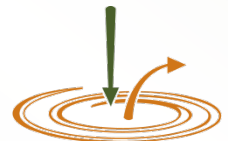


Assess Local C&D Infrastructure

C&D Recycling Data



Reviewed County C&D recycling data reported to DEP from 2000 through 2008 to assess the number of C&D tons recycled versus disposed, and the recovery rate. The rate ranged from a low of 11% in 2000 to a high of 45% in 2004. In 2008 the rate was reported to be 32%.



Assess Local C&D Infrastructure

Updated Vendor Directory for C&D Materials

Metal Material Recycling Service Providers			Aluminum Foil/Trays	Appliances	Automobiles	Drums, steel (clean)	Lead-Acid Batteries	Steel Pipe	Steel/Tin Cans and Lids	Empty Aerosol Cans	Aluminum Cans	Aluminum
Company	Phone	Miles from Sarasota										
Goodwill Industries	(941) 355-2721			❖	❖							
Waste Services of Florida	(941) 953-6559	0.9		❖					❖			❖
1-800 Got Junk	(239) 430-5678	1.0						❖				❖
Gulf Coast Metals Co. Sarasota	(941) 955-5118	1.1										❖
Sun Coast Sanitation	(941) 359-8803	2.2				❖		❖				❖
Waste Management - Recycle America	(941) 355-9230	2.4	❖						❖	❖		
American Electronics Recycling	(941) 751-6141	2.6										❖
FCR/Resource Recovery	(941) 359-0445	2.6	❖						❖	❖		

Partial Directory Sample only

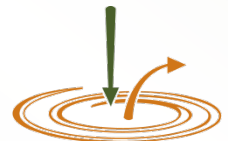


Assess Local C&D Infrastructure

Time and Motion Study



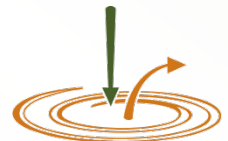
The study concluded that source separation saves labor and time at the County's processing facility. Allowing or designing facilities to accept predominantly source separated loads would provide additional efficiency.



Assess Local C&D Infrastructure

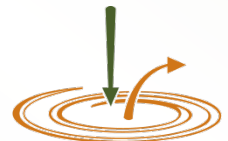
Conclusions:

- Adequate local capacity for C&D recycling
- Existing facilities designed and equipped to handle mixed loads
- Recycling vendors available to accept source separated loads
- Builders need to be made aware of the differences and benefits between mixed and source-separated programs



Pilot Incentive Program

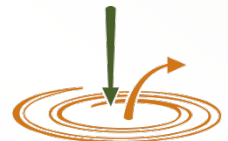
Job-site Education & Signage



Pilot Incentive Program

On-site Job Support Staff Activities:

- 256 Site Visits
 - Document Recycling Activity
 - Educate Contractors About Recycling and Recycled Content Building Material
 - Reduce Contamination Through Regular Contractor Outreach
 - Distribute Promotional Incentives to Job-site Contractor Staff



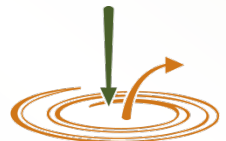
Pilot Incentive Program

New Educational Materials:

- Website Content:

<http://www.scgov.net/EnvironmentalServices/SolidWaste/Commercial/CDDebris.asp>

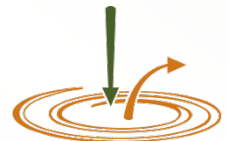
- Recycling Vendor List Update
- Builder/Contractor Guide
- Job-site Handouts
- Container Signage



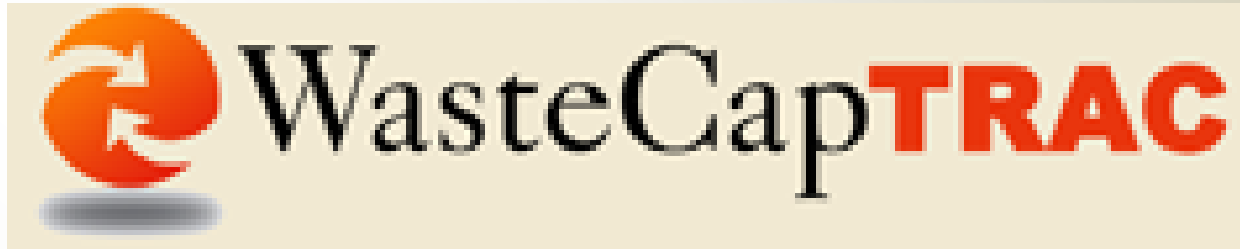
Pilot Incentive Program

Tip Fee Rebate for Source Separated Materials:

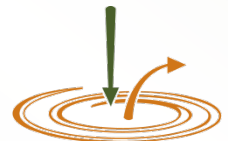
- \$13 per ton for source separated materials offered, and
- \$9,166.43 rebates distributed among 4 builders



Pilot Incentive Program



- Measurement & Valuation (M&V) Tool
- Customized for Sarasota County
- Builder Training
- Quick Guide
- Hands-on Assistance If Needed
- Successfully Used By All Builders



Pilot Program Participation

ST★RLING

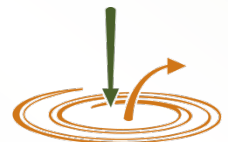


kessler consulting inc.
innovative waste solutions

Fred M. Starling

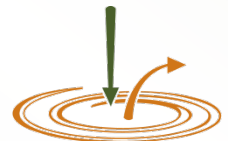
METI Plaza - Commercial

February 2009 – February 2010
25,000 Square Feet



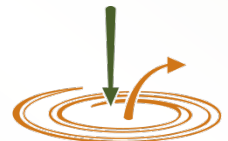
John Cannon Construction

Dr. Bockholdt's Office - Commercial
April 2009 – August 2009
2,000 Square Feet



John Cannon Homes

Beeth Residence - Residential
January 2009 – September 2009
5,769 Square Feet

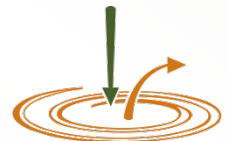


My Green Buildings

Wilson Studio - Residential

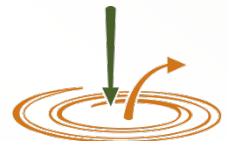
March 2009 – May 2009

1,500 Square Feet



Tandem Construction

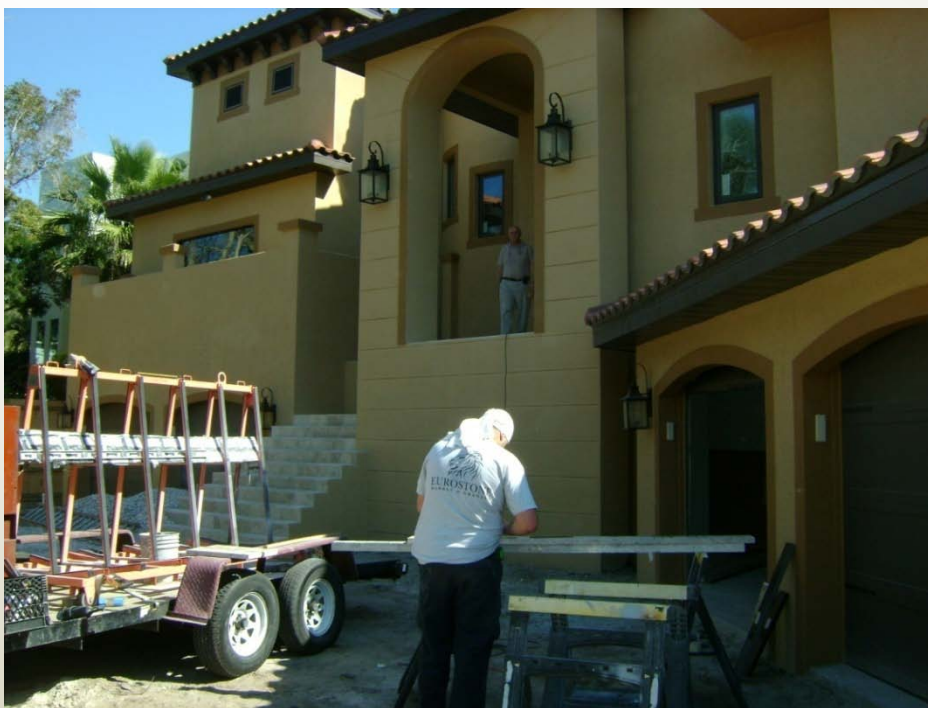
State College of Florida - Commercial
May 2009 - May 2010
41,000 Square Feet



Vision Homes

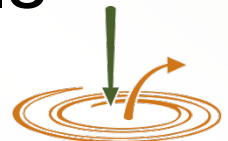
Midnight Pass - Residence

January 2009 – 2010
6,500 Square Feet



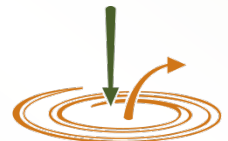
Challenges and Solutions to C&D Material Recycling

- Illegal dumping = Enforcement Signage
- Contamination = Carts for Garbage or “Take Home” Garbage Program by Contractors
- Job-site Supervisor Buy-in = Successful Program
- Clean Roll-off Containers = Proper Signage
- Educated Contractor Staffing = Recycling and Recycled Content Building Materials



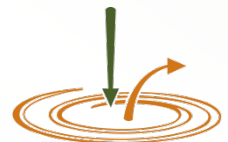
Economic Challenges to C&D Material Recycling

- Low cost of disposal
- Understanding mixed versus commingled material cost structures
- Fluctuation in markets for recyclable debris at processing facilities
- Finding new markets for other debris material, like drywall



Future Program Considerations

- Market County website pages to builders as educational tool
- Provide workshops to builders and contractors
- Make presentations to building associations and company staff
- Provide access to M&V tool
- Investigate reduced tip fee at County C&D facility for clean, source separated loads



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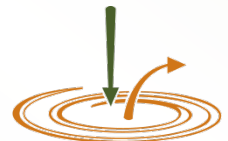
for

Sarasota County

Solid Waste and

Environmental Program Management

Department



kessler consulting inc.
innovative waste solutions

Sarasota County C&D Debris Recycling Program

Logo

Sarasota County
Solid Waste Management
Phone

Printed on recycled paper

C&D Recycling Goal

Sarasota County has long been concerned with recovering recyclable materials. Recycling is an important part of our Sustainable Sarasota initiative. The County recycled 22% of its estimated 114,021 tons of the C&D debris collected in 2004. We want to recover much more C&D debris to help meet our waste reduction recovery goals of 60% by 2008, 65% by 2015, 75% by 2025, and a Zero Waste long-term goal.

C&D Recycling Program

Builders and Contractors are invited to participate in a Pilot Program that will test ways to encourage C&D recycling. It is an opportunity for you to provide the County with feedback that will help us to assist you better in the future. Ideas and tools to be tested include:

- A tip fee differential for source separation of materials,
- New education materials,
- New job site support,
- A debris measurement and tracking database, and
- An opportunity to be the subject of a case study.

Program Benefits

- Save money by reducing debris disposal costs and reducing the need for new materials.
- Create a more clean and safe project site.
- Improve your company's public image and community relations in today's Green conscious environment.
- Build a competitive market advantage by including waste prevention and recycling experience when bidding on new projects.
- Create environmental benefits and prolong the life of our landfills by minimizing the amount of C&D debris being landfilled.
- Help our economy by supporting jobs related to salvaging and recycling construction debris.

Where can I take my C&D debris?

Any of two processing facilities located within the County that are participating in the Pilot program.

- WCA of Florida (Fruitville MRF)
- Central County Solid Waste Disposal Complex

What materials qualify to be recycled?

- Wood (untreated)
- Concrete and asphalt
- Metal
- Drywall, Gypsum Board
- Carpet, carpet padding
- Dirt, Soil
- Rock, stone
- Glass
- Plastic

How will the County help me get started?

The County has prepared educational materials to help you and your crews begin a C&D recycling program.

- Brochure

- FAQ
- Comprehensive Guide
- Directory of reuse and recycle vendors
- Web pages devoted to C&D recycling
- Site Visits
- Assistance understanding costs
- Measurement and Valuation (M&V) database

Where can I get more information?

Visit the county's website at: www.website.gov

Or call/phone:

Recycling Program Coordinator
Sarasota County Solid Waste
8750 Bee Ridge Road
Sarasota, FL 34241
941-861-5000