

# **KENNEDY SPACE CENTER**

**Recycling/Waste Diversion/Green Purchasing**

**Presented to:  
NASA RAP/P2 Community**

**By:**

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# KSC RAP Programs Overview

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- ◆ Recycling
- ◆ Solid Waste Diversion
- ◆ Green Purchasing
- ◆ Challenges
- ◆ Looking Ahead





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# KSC Recycling Program

- ◆ Recycling program elements
  - Cardboard and mixed paper
  - Aluminum, glass and plastic containers
  - Construction/demolition material
  - Miscellaneous (oil, solvents, tires, electronics, toner cartridges)
  - Commodities recycling through property disposal
  
- ◆ Identify and fund individual recycling/pollution prevention projects with recycling revenue
  
- ◆ Awareness and educational promotional activities
  - Team Partnering
  - Events (America Recycles Day, Earth Day, P2 week)





# Other Projects Funded with Recycling Proceeds 2005 - 2008

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- Landfill Concrete Crushing
- Concrete Sampling
- Electric Vehicle Outlets
- Causeway Mulching
- Modification of Grapple Rake
- KSC Schwartz Road Landfill Mulching of Diverted Material
- **Recycle Content Tables/Benches (246)**
- Cardboard Recycling Containers (15)
- KSC Child Development Center Recycle Content Fencing
- Desktop Recycling Bins
- Ransom Road Scales
- Drum Crushing Services
- **DARCY Concrete Densification**
- Cardboard Recycling Containers (20)
- Recycling Services Contract
- Validation of Low-VOC Topcoats & Thermal Spray Coatings as replacements for Inorganic Zinc-Based Systems
- Renewable Energy Credits Purchased



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# KSC GAP Monthly Commodity Sales Chart

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	Aluminum		Plastic		Glass	
	Tonnage	\$\$\$	Tonnage	\$\$\$	Tonnage	\$\$\$
August	0.06	\$112.20	0.08	\$17.60	0	\$0.00
September	0.27	\$504.90	0.83	\$182.60	0.2	\$1.50
October	0.28	\$327.60	1.09	\$239.80	0.61	\$4.58
November	0.21	\$216.30	0.63	\$37.80	0.15	\$1.13
December	0.27	\$227.85	0.58	\$22.50	0.35	\$2.55
January	0.25	\$160.05	0.59	-\$28.62	0.15	\$1.09
February	0.26	\$156.36	0.67	\$13.00	0.19	\$1.38
March	0.44	\$264.62	0.64	\$18.62	2.21	\$2.21
April	0.37	\$189.28	0.74	\$22.94	1.8	\$0.99
<b>Total</b>	<b>2.41</b>	<b>\$2,159.16</b>	<b>5.85</b>	<b>\$526.24</b>	<b>5.66</b>	<b>\$15.43</b>



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# Construction Recycling EMP

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Focus Area	Tasks	Performance Measure	Due Date	Notes	Status
<b>Construction Recycling</b>	Enhance recycling requirements for design SOW, specs and clauses	Task Completion	6/30/2009		<b>G</b>
	Enhance waste reduction/recycling requirements in KNPR 8500.1	Task Completion	6/30/2009		<b>G</b>
	Review existing Center property transfer and demo processes to identify opportunities for increased waste diversion	Revisions to policy	9/30/2009		<b>G</b>
	Advocate enhanced capture/reporting of recycled quantities in construction projects	Increased recycling	6/30/2009		<b>G</b>



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# Construction Recycling Success Concrete Densification Project

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# Construction Recycling Success NASA Causeway Refurbishment

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- ◆ DARCY used Concrete from Construction of Facilities Demolition Projects

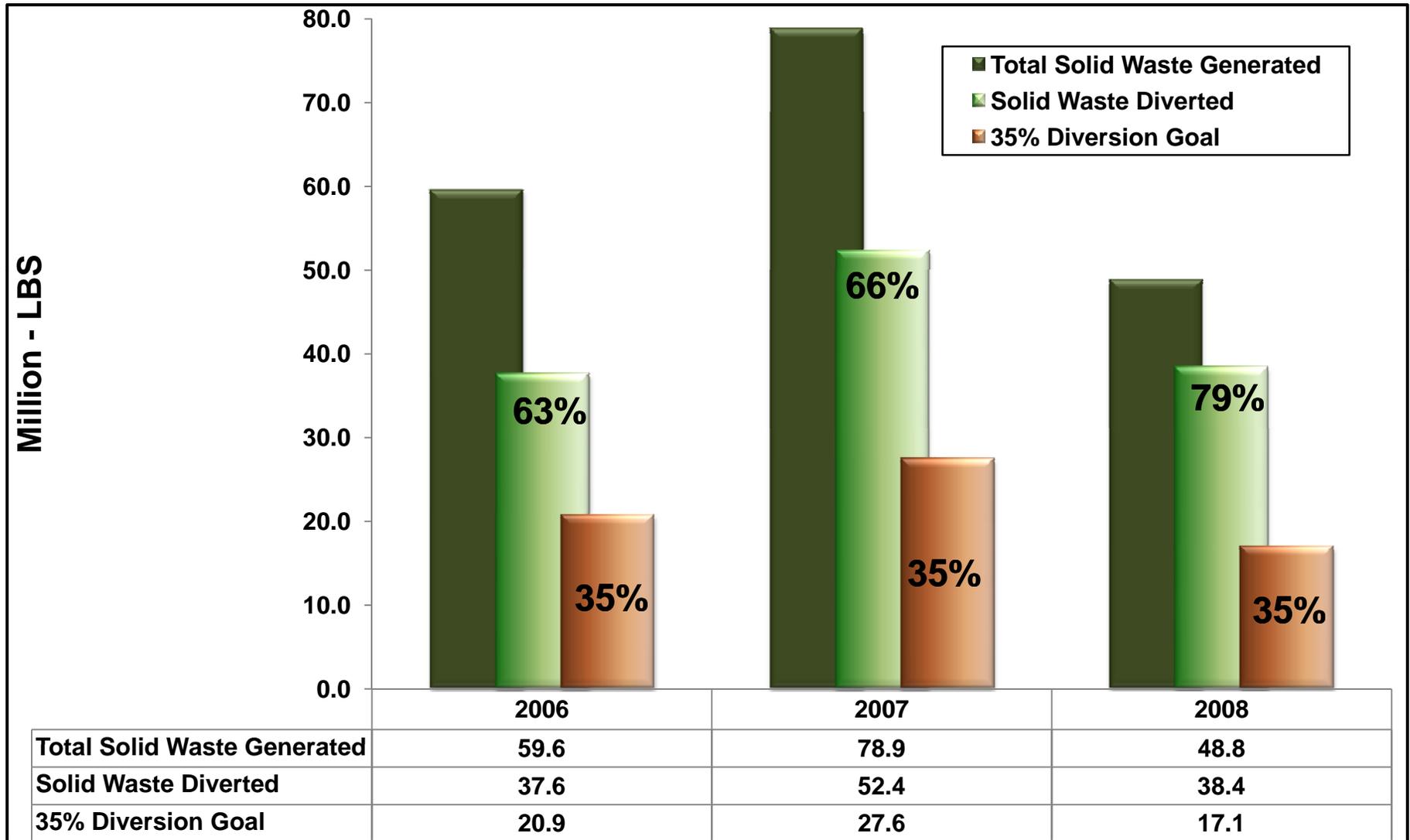




# KSC Solid Waste Diversion

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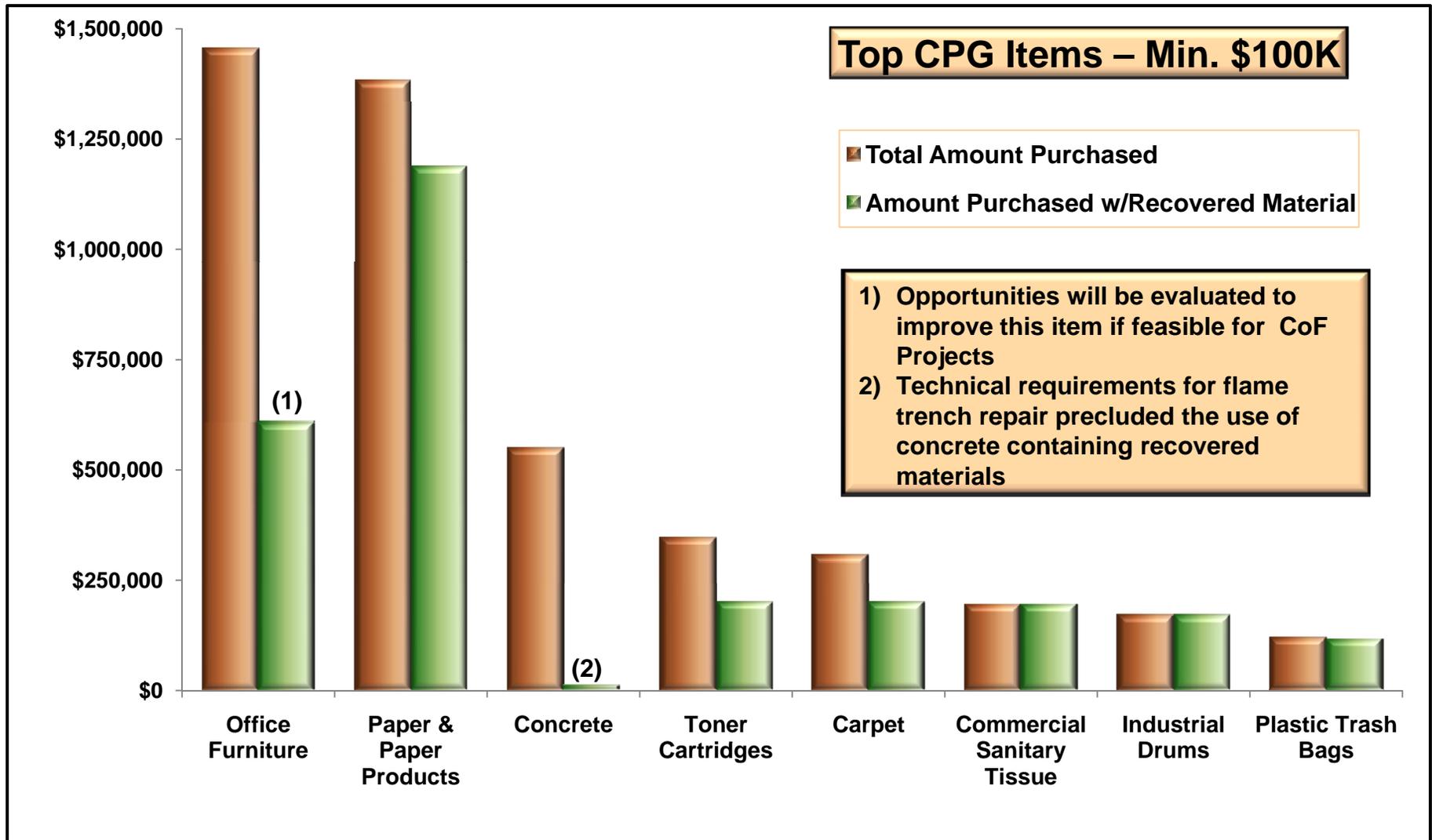




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# FY 2008 Green Purchasing (CPG Items)

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# ESP Team Members

## Environmental Excellence Through Superior Cooperation

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# ESP In Action

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# Challenges

## ◆ Recycling

- Expansion
- C&D Recycling

## ◆ Green Purchases

- Training
- Policy
- Procurement responsibility/commitment
- Data capture

## ◆ Contracts

- Sales
- Service



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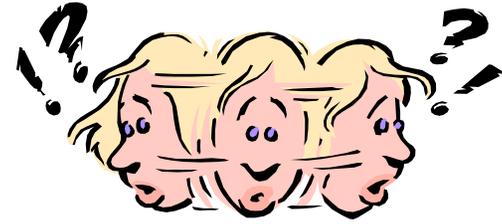
# Looking Ahead

- ◆ CY2009: develop strategy for long-term program enhancements
  - Identify and engage stakeholders (Property Disposal, Facilities, Center Planning, Contractors)
  - Identify additional needs/opportunities
    - Services
    - Contracting
    - Teaming
    - Facilities
  - Identify funding requirements and recycling fund spend plan



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# QUESTIONS



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6/1/2009

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