

# Solid Waste UPDATE



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**Get Caught** **!**

## GreenPoint Construction Demolition Processing Center Begins Recycling C&D Waste

by Kris Hicks, Bureau of Waste Management

A Topeka company is expanding its effort to recycle, recover, and resell used construction and building materials that would otherwise go to waste.

Bahm Demolition, a Silver Lake-based company, opened a new location in Topeka last July. Tina Lundgren, operations manager, said, “things are going well right now. We are processing 250 tons per week. We hope to purchase a wood grinder in the future to process clean wood into mulch.” Attorney Fred Patton added “in addition to local contractors, architects and engineers are beginning to realize they can incorporate in their bid documents requirements that waste from their projects be reduced, reused, or recycled. Weekly, more and more customers are finding GreenPoint. They may be one time customers with a load of debris from a home remodeling project, or a roofing contractor who will bring in several tons



a week.”

Located at 1405 SE Madison, just minutes from downtown, GreenPoint Construction Demolition Processing Center accepts all types of C&D debris, including shingles, concrete, metals, sheetrock, masonry, carpet, wood and bricks. The facility serves residential, commercial, and industrial entities

in Topeka, Shawnee County, and bordering counties. GreenPoint received a \$150,000 grant from the Kansas Department of Health and Environment to help establish the company. This grant was used to help

*(continued on page 5)*

## Railroad Clean-Up Program

by Bob Medina, Bureau of Waste Management

**Special Statewide Project:** After years of efforts, KDHE has entered into agreements with railroad companies to clean up piles of railroad ties left by contractors.

The Bureau of Waste Management (BWM) is currently working with railroad companies throughout Kansas cleaning up abandoned piles of railroad ties left by contractors. Three large sites were cleaned up in 2006 by Union Pacific. The largest pile, in Edwardsville,

contained 60,000 ties that were cleaned up and sent to a permitted landfill at a cost of more than \$300,000. Another large site (25,000 ties) was located in Lucas (Russell County). Former legislator Laura McClure, local government officials, and KDHE have been trying for nearly 15 years to get this

pile removed with no success until 2006 when BWM was successful in getting Union Pacific to clean up this site. The Lucas ties were sent to a permitted landfill in Utah at a cost of more than \$300,000. The third site was in Severance (Doniphan County) where 5,000 ties

*(continued on page 4)*



# Yard Waste Composting Top 10

by Ken Powell, Bureau of Waste Management

David Letterman has his Top Ten list. If you are at the top of somebody's list you are probably in trouble. Here at KDHE we have developed a top ten list of yard waste composting facilities. The top yard waste composting facility for 2006 was the City of Lawrence with more than 11,400 tons received. Coming in a close second was the City of Olathe with more than 10,700 tons received. In 2005, this order was reversed with the City of Olathe being the largest facility. The chart below shows the top ten facilities and the amounts they received. These numbers are derived from the annual compost report that is mailed out in January.

If we look at all facilities, Seward County Landfill is the largest with over 55,000 tons received. Chamness Technology, Inc. would be second with over 39,000 tons received. Both of these facilities compost paunch from the cattle slaughter plants in Liberal and Dodge City.



## 2006 Top 10 Yard Waste Composting Sites

Permit No.	Facility Name	Tons Received
0855	City of Lawrence	11,416
0247	City of Olathe	10,769
0779	McPherson Area Solid Waste Utility	5,513
0735	C-ME Recycling, Inc.	5,362
0762	Industrial Pallet & Lumber Reclamation, Inc.	3,035
0747	City of Hays	3,000
0723	Reno County	2,701
0727	City of El Dorado	2,600
0841	City of Augusta	2,000
0718	Ford County	1,511

# KDHE Directs Debris Management for Greensburg Tornado

by Bill Bider, Director, Bureau of Waste Management

For the first several weeks of the response activity to the Greensburg tornado, KDHE worked closely with KDOT, KDEM, the Kansas National Guard, Kiowa County, the U.S. EPA, and FEMA providing technical and regulatory direction regarding the management of debris. KDHE's proposal to combine waste segregation with burning, recycling, and direct disposal was accepted by all parties and operational plans were implemented. Most activity occurred at the "north" active construction/demolition landfill owned by Kiowa County. Burning of combustible material occurred in one on-site pit and two pits on private property south of the county landfill. Direct disposal of waste which was mostly non-combustible occurred over old

closed municipal solid waste disposal areas. Concrete and other rubble was diverted to an area on the county property for crushing to

produce valuable rock for use by the county.

The U.S. EPA hired a contractor to help handle hazardous materials, spill residues, transformers, white goods, and all freon containing devices. These materials were staged in various locations for later processing and shipment for recycling and disposal. Refrigerators and freezers

containing food were specially handled at the county's "south" MSW landfill to ensure that this rotting waste was properly disposed.

Over 42,000 loads and nearly 400,000 tons of waste were

taken to the north landfill. The closure of the site, including the movement of the unburned residue from the adjacent private property, is being carried out by the U.S. Army Corps of Engineers working in close contact with KDHE. This work should be done before the end of this year.



# KOR Holds Annual Meeting in Salina

by Debra Hoepner, Executive Director, Kansas Organization of Recyclers

The Kansas Organization of Recyclers (KOR) held their annual meeting and conference on September 26 at the Holiday Inn in Salina. Over 90 members and guests attended. Bob Akers of The Surplus Exchange discussed electronics recycling and the negative impact of electronics landfill dumping. Mark Rogers of Kansas Wesleyan then led a hands-on computer dissection showing participants the recycling alternatives for various parts. Bill Bider, KDHE, spoke about KOR's history and growth, and Meranda Reifschneider, KDHE, presented a program about the establishment of Green Teams in the workplace. Jo Oliver of Sedgwick County ended the meeting showing the incredible results of their nine

year waste minimization program. KOR members elected their 2007-08 Board of Directors, who will lead KOR into another year of growth as they work, in partnership with KDHE, to support waste reduction, composting, reuse and recycling efforts in Kansas through advocacy, information, technical support, networking and educational opportunities in partnership with local, state, regional and national organizations.



# KDHE Awards \$1.2 Million in E-Waste Collection Center Grants

Eight grants were awarded to establish regional e-waste collection centers as part of a state-sponsored push to recover e-waste for recycling, especially in areas where recycling opportunities are very limited. The table and map on page 4 show who received grants, the amounts awarded, and the regions served by each center. Secondary operating contracts will be established with each region to provide financial aid during the initial two years of operations. Aid will include about five-cents per pound for all e-waste collected and additional funding for the actual cost of recycling/disposal. The eight grants cover 56 counties and KDHE has already heard from some regions that would like to expand their service area.



Even though these grants were initially promoted as pilot projects to learn if the collection center concept would work before extending the program statewide, it is hoped that these facilities will develop plans to sustain their operations indefinitely. This will require a long-term business plan to obtain adequate revenue from e-waste generators to support operations after the initial two-year period.

The collection centers will work with downstream vendors which will process the e-waste and market materials or components for reuse and material recycling.

Free up your space!  
Recycle e-waste.

# Waste Tire Grants Awarded for Playground Cover, Park Benches & More

by Kris Hicks, Bureau of Waste Management

New legislation in 2007 authorized KDHE to award grants from the Waste Tire Fund to assist local governments and schools in purchasing products made from recycled waste tires. Twenty-nine grants were awarded totaling \$408,307. The program's goal is to stimulate the use and production of recycled rubber products in Kansas and minimize the landfill disposal of waste tires.

The Waste Tire Fund receives income from a 25-cent excise tax on each new tire sold in Kansas. The grant program may pay up to 50 percent of the total cost of a proposed project.

Any "tire-derived product" which is listed on the KDHE approved vendor/product list, is eligible for reimbursement. This list includes playground cover, athletic field surfacing, horticulture products, and molded or extruded rubber products made from recycled waste tires. Vendors and applicants were encouraged to nominate products to be included on the approved list.

Grantees must display a designated recycling logo, indicate the funding source for the project or product, and participate in the KDHE environmental public education campaign. All grant recipients installing playground surfacing have been asked to report their playground accident and incident rates to KDHE for at least three years following installation of the (continued on page 7)



# Household Hazardous Waste Training

by Maria Morey, Bureau of Waste Management



Kansas Regulations require that all personnel responsible for sorting, segregation, or processing HHW complete an initial 24-hour safety training course and receive a minimum of eight hours of annual refresher training. This year, we are providing two 24-hour initial courses and eight options for refresher training through our HHW training contract with Barton County Community College. All classes begin at 8 a.m. and end at 5 p.m. The courses listed below are available only to Kansas HHW program staff.

## 24-Hour Initial Training

- o Topeka February 5-7, 2008
- o Wichita February 12-14, 2008

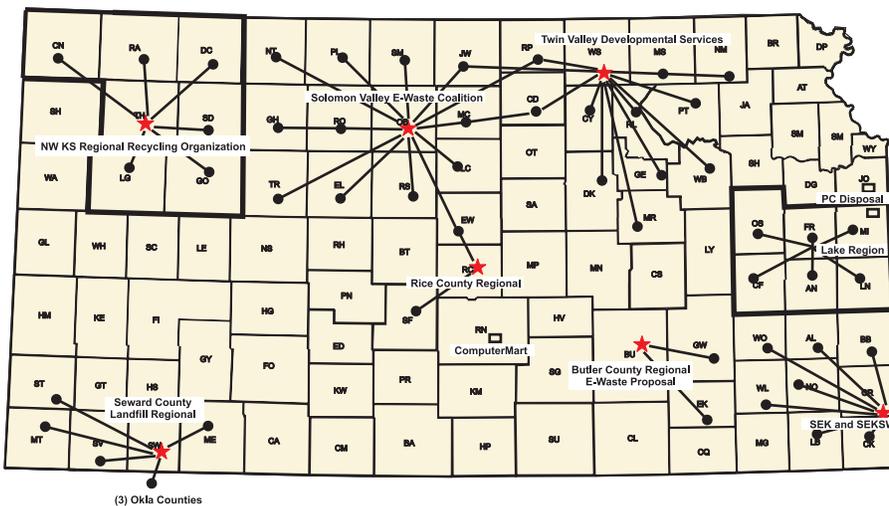
## 8-Hour Refresher Training

- o Ottawa November 8, 2007
- o Colby November 13, 2007
- o Hays November 15, 2007
- o Junction City January 15, 2008
- o Pratt January 17, 2008
- o El Dorado January 29, 2008
- o Kansas City January 31, 2008
- o Overland Park March 26, 2008 (WORKS! Conference)\*\*

\*\*Attending HHW sessions at the WORKS! Conference in March can also fulfill the refresher training requirement. The training day of the conference offers several HHW training options. There is a fee associated with conference attendance. To register for this date, please complete the WORKS! registration brochure.

**Register online at [www.kdheks.gov/waste](http://www.kdheks.gov/waste)**

## E-Waste Collection Pilot Grants



Recipient	Amount	Recipient	Amount
Butte County	\$264,374.40	SEKSWOA and SEK Recycling	\$214,938.24
Lake Region SW Authority	\$ 47,088.00	Seward Co Landfill	\$ 48,000.00
NW KS Regional Recycling Organization	\$288,262.08	Solomon Valley E-Waste Coalition	\$131,929.92
Rice County	\$ 96,000.00	Twin Valley Development Services	\$189,352.32

# Railroad Tire Cleanup

(continued from page 1)

were cleaned up. To facilitate further clean-up work, Union Pacific has signed an agreement with KDHE to reimburse 100 percent of the state's clean-up costs for all sites that BWM cleans up.

Union Pacific is scheduled to clean up two sites this year. Work is complete at the first site in Bushong (Lyons County) which contained 13,113 ties. The disposal cost at Lyon County C&D landfill was more than \$13,000. This was a site where BWM hired the contractor and was reimbursed per the agreement. The second site is in Gypsum (Saline County). Cleanup of this site is scheduled to start in the fall of 2007. Approximately 6,000 ties from this



site will be taken to the City of Salina landfill.

WATCO Railroad Company has also agreed to clean up ties left by their old contractors. The first site was completed in 2007 at the City of Windom's tree burn site in McPherson County. Approximately 6,000 ties were taken to the McPherson County C&D landfill. WATCO's next site of 7,000 ties, scheduled for the fall 2007, is at Jetmore's burn site in Hodgeman County.

Kansas City Southern Railroad will clean up a site in Pittsburg (Crawford County) in the fall 2007. The 8,000 ties located at this site will be sent to a co-generation plant located in northeastern Texas owned by International Paper. Discussions are ongoing with International Paper in hopes that they will accept waste ties for use at co-generation plants located in Texas and North Carolina as a preferred alternative to landfilling.





## Green Teams in Kansas Schools

by *Maureen Ruhlman,*  
*Bureau of Waste Management*

The Green Team program has had an exciting summer. In addition to assisting the Department of Administration

with launching the Governor's Directive to have all state offices recycling by the end of 2007, we have expanded the Green Team concept into Kansas schools and recently launched a new Green Team web site ([www.kansasgreenteams.org](http://www.kansasgreenteams.org)).

The web site includes a lot of great resources to help schools and other organizations set up their own Green Teams, such as step-by-step guides,

information about where to purchase recycling receptacles, and outreach materials to help get kids excited about helping the environment.

The first participants in the Kansas Green School program are Washburn Rural High School and Topeka Collegiate. Washburn Rural participated in the Earth Day 2007 event and has an almost 30 year history of recycling efforts. On September 7, BWM presented Washburn Rural the first Kansas Green School award.



*KDHE Secretary Roderick Bremby presents Washburn Rural High School with the first Kansas Green School Award*

Topeka Collegiate approached BWM staff at the History and Environment Fair to request guidance setting up a Green Team. On September 28, BWM assisted Topeka

Collegiate with a Green Team kick-off event including composting demonstrations and music by Stan Slaughter. We have also visited with Appanoose Elementary to discuss setting up recycling in their school.

The future of Green Teams looks busy as BWM staff is steadily receiving additional requests for information about setting up Green Teams in other settings as well. Some of our outreach efforts include visiting school-aged kids in non-school settings. For example, we visited with the Pomona Pioneers 4-H group with the hope that the kids will take the Green Team message back to their school. We are looking forward to growing the Green Teams in the schools and expanding the programs from recycling into overall environmental stewardship.



## Should Solid Waste Facilities be Concerned with Hazardous Waste?

by *Jim Rudeen, Bureau of Waste Management*

Most operators are usually aware of hazardous waste that comes into their facility through the front gate. Training and screening programs are typically set up to insure such material does not make it into the landfill. However, many facilities do not realize they are often generators of hazardous waste. If your landfill or transfer station has a maintenance shop of any size, there is a good chance you may be a generator of hazardous waste. In Kansas, if a facility generates more than 55 pounds of hazardous waste per month, they are regulated as a Kansas Generator and numerous hazardous waste regulations will apply. It only takes 6-7 gallons of a hazardous waste to equal 55 pounds. Some common hazardous wastes generated by maintenance shops may include waste degreasers from parts washers, solvents, paints, wipes, and aerosol cans. It is important that the operators of each solid waste facility be aware of each waste type they generate and the amount of waste generated each month. Even if a facility does not generate more than 55 pounds of hazardous waste a month, any hazardous waste generated must be managed in an environmentally sound manner. Hazardous waste must never be dumped on the ground, dumped in a stream, poured into a storm drain, or dumped in a septic system or lagoon system.

Used oil generated from the facility is not considered a hazardous waste when it is sent for recycling or burned on-site for energy recovery. Used oil storage tanks must be clearly labeled with the words "Used Oil", and if the tank is greater than 1,320 gallons in capacity, a secondary containment system is required.

For more information on the proper disposal of hazardous waste, contact Rebecca Wenner of KDHE's BWM at [rwenner@kdhe.state.ks.us](mailto:rwenner@kdhe.state.ks.us) or by phone at (785) 296-1604.



*Third and fourth grade students from Rural Central Elementary School Abilene, Kansas*



**KDHE Mission:**

*As the state's environmental protection and public health agency, KDHE promotes responsible choices to protect the health and environment for all Kansans.*

[www.kdheks.gov](http://www.kdheks.gov)

## Waste Tire Grants Awarded

(continued from page 3)

waste tire materials. Grant applicants seeking more than \$10,000 must have a quality officer on site during installation.

Materials and installation methods used for playground surfacing must conform to the manufacturer's specifications. In addition, the product manufacturer is responsible for all warranty claims. The product supplier is responsible for any installation training or guidance to warn users of any hazards or installation pitfalls. The Consumer Product Safety Commission publishes guidelines for Public Playground Safety (publication 325). This grant program is also promoting the awareness of the safety of playground surfacing such as the critical heights of equipment installations for the surfacing materials used. It will be the responsibility of the facility to inspect and maintain ground surfaces regularly and frequently to ensure continued compliance with ASTM 1292-04 (Head Impact - fall height criteria) and ASTM F1951 (Standard Specification for Determination of Accessibility to Surface Systems Under and Around Playground Equipment).

## Landfill Closure and Post-Closure Cost Estimating Worksheets Update

by Brian Busby,  
Bureau of Waste Management

In 1998, KDHE developed unit cost factors based on a compilation of representative costs and bid documents from facilities across the state. Since the last update, inflation would account for approximately a 24 percent increase in the costs of closure and post-closure care. Thus, the Solid Waste Permits Section is working to revise the cost estimating worksheets and guidance documents. Unit costs will be updated using a variety of reference sources such as contract bids, R.S. Means, state agencies, EPA – Office of Solid Waste, and the U.S. Army Corps of Engineers. An annual inflation factor will also be a part of the cost estimating worksheets.

Revised annual cost estimates will begin with permit renewals in July 2008. This requirement is described in the bureau's letter dated October 3, 2007 regarding annual permit renewals. Accordingly, landfill closure and post-closure cost estimates must correspond with the current closure plan, which includes a current plot plan. These changes may require some expenditure of resources. However, once the plans and estimates are updated, the cost of permit renewals should be minimized and the benefits of a more efficient financial assurance system will be evident. The department requests your continued partnership in this effort to improve solid waste management in Kansas.

**Branching Out For a Greener Kansas**

**Save the Date**

**March 25-28, 2008**  
**Overland Park Marriott**  
**Overland Park, Kansas**

**2008 WORKS!**  
CONFERENCE ON RECYCLING, COMPOSTING,  
AND HOUSEHOLD HAZARDOUS WASTE

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Bureau of Waste Management



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## Calendar Items

January 15, 2008	HHW 8-hour Refresher Training - Junction City
January 17, 2008	HHW 8-hour Refresher Training - Pratt
January 29, 2008	HHW 8-hour Refresher Training - El Dorado
January 31, 2008	HHW 8-hour Refresher Training - Kansas City
February 5-7, 2008	HHW 24-hour Initial Training - Topeka
February 12-14, 2008	HHW 24-hour Initial Training - Wichita
March 25-28, 2008	<i>WORKS!</i> Conference - Overland Park
March 26, 2008	HHW 8-Hour Refresher Training - (at <i>WORKS!</i> Conference)

\*HHW Training is limited to Kansas HHW staff. Attending HHW sessions at the *WORKS!* Conference in March can also fulfill the refresher training requirement. There is a fee associated with conference attendance. To register for the conference training, please complete the *WORKS!* registration brochure. Register for all other HHW training sessions at [www.kdheks.gov/waste](http://www.kdheks.gov/waste)



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