

Solid Waste UPDATE



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In This Issue . . .

Universal Lubricants1
 Kansas Solid Waste
 Plan Update1
 Top Ten Kansas Recyclers.....2
 WORKS! 2010.....2
 Green School Initiative2
 Salvaging Clean Rubble.....3
 Methane Recovery.....3
 KOR Annual Conference.....4
 Solid Waste Managers &
 Operators Training4
 Get to Know KDHE
 Solid Waste Staff.....5
 Who is this BWM Staff
 Member?5
 Information Exchange.....6
 We're Greener Together.....6
 Do You Know7
 Calendar Items.....8

Get Caught **!**

Universal Lubricants Builds a Used Oil Re-Refinery in Wichita

by Joe Cronin, Chief, SW Processing & Planning Unit, Bureau of Waste Management

Since the 1990s, Universal Lubricants (UL) has practiced resource recovery by collecting used oil and processing it into industrial fuel oil. Now UL is going one step farther by building a true recycling facility. UL has constructed a re-refinery to process used oil into products. Kansas Department of Health and Environment (KDHE) Secretary Roderick Bremby attended the grand opening in August.

The re-refinery has a design capacity of 12 million gallons per year (25gpm) and will produce base oils, fuel oils, and asphalt flux. A tank farm was also constructed to provide storage capacity for the used oil and the re-refined oils. UL has an agreement with several name brand automotive service centers to collect their used oil.

The re-refinery is identical to a major crude oil refinery although much smaller. Used oil is processed by vacuum distillation, wipe film evaporation, and hydro treating. A gallon of used oil will be re-refined into 70% lube oil, 11% asphalt flux, 5% water,

and the remaining heavy and light fuels.

The lube oil consists of two viscosities that will be further processed in the existing UL blending plant into a variety of lubricants including automotive motor oils and transmission fluid.

The asphalt flux is an asphalt extender for paving projects. The light gas oils will be used to help power the refinery.

UL has also built an industrial wastewater treatment plant to process the contaminated

water that is generated by the re-refinery. The plant was built with excess capacity

(continued on page 4)



Kansas Solid Waste Plan to be Updated

by Bill Bider, Director, Bureau of Waste Management

Every five years, the KDHE Bureau of Waste Management (BWM) oversees a process to update the State of Kansas Solid Waste Management Plan. The next update is due for completion in the first half of 2010. The Kansas Solid Waste Management Plan primarily serves as a guide for KDHE, but our efforts and areas of focus will have many effects on all

Kansans. Some important effects include new areas of regulation and how solid waste funds are used to support local solid waste projects.

BWM values the opinions of solid waste "stakeholders" when updating the State Plan. Stakeholders include owners and operators of permitted facilities, elected officials, consultants, recyclers,

environmentalists, waste generators, and members of the general public.

We have developed a method to obtain input from interested stakeholders as we prepare this plan update. We will begin with an initial survey which can be completed online or you can send us a completed hard copy. The online survey can

(continued on page 6)



Kansas Solid Waste Management Plan Update Survey

<https://www.dhe.state.ks.us/surveys/planupdate.htm>

Top Ten Kansas Recyclers in 2008



Listed Alphabetically

Facility Name	Recycling Location
AbitibiBowater Recycling	Kansas City, KS
Deffenbaugh Recycling Co., LLC	Kansas City, KS
Glickman Metal Recycling, LLC	Wichita, KS
International Paper	Wichita, KS
Midwest Iron & Metal	Hutchinson, KS
Paper Stock Dealers	Kansas City, MO
Salina Iron & Metal	Salina, KS
Smurfit-Stone Recycling	Kansas City, KS
Sonoco Hutchinson Mill	Hutchinson, KS
Wal*Mart Stores, Inc.	All Kansas Locations

Green Schools Initiative

by Maureen Ruhlman, Bureau of Waste Management

The 2008-2009 school year marked the first year for the Green Schools Initiative. The



Green Schools program represents the collaborative efforts of four Kansas Department of Health and Environment (KDHE) bureaus including Air, Environmental Remediation, Water, and Waste Management. Each Bureau has appointed a representative who participates on the KDHE Green School Committee charged with determining goals for the program and developing strategies to achieve those goals. As a result, the Green Schools Initiative unveiled a web site dedicated to the schools, www.kansasgreenschools.org, at the beginning of the 2008 – 2009 school year. The web site includes an option for schools to register on the Green Schools network and receive the Green Schools newsletters.

Additionally, schools that register receive up to four recycling containers for use at their school. A total of 282 schools are currently registered on the Green Schools web site. The first 300 schools to register on the Green School Network during the 2009-2010 school year will receive Teaching Green, a book of environmental sustainability projects for classrooms. These books are available at the elementary, middle and high school levels (visit www.greenteacher.com for more information).

The Bureau of Waste Management (BWM) has completed two Green School grant rounds. A total of \$155,507 was awarded to schools for projects related to composting, recycling, and student education. BWM anticipates announcing the third round of Green School grants sometime near the end of 2009. Additional Green School grants for air, water, and energy conservation projects are funded by the Bureaus of Water and Air.

(continued on page 7)



March 23-25 Junction City Kansas

This coming spring will bring the 16th annual **WORKS!** event to be held in Junction City the week of March 22, 2010.

The event will be held in the Courtyard Marriott in growing and thriving Junction City, just a stones throw from I-70. Dates are Tuesday, March 23 through Thursday, March 25.

We will be putting special emphasis on a ‘training’ presentation this year with a ‘no frills’ approach to delivering topical instruction on important issues.

Watch your mail for more details !

www.kdheks.gov/waste

Salvaging of Clean Rubble Materials from Demolition Projects

by Rebecca Wenner, Bureau of Waste Management

The Bureau of Waste Management (BWM) wants to encourage reuse of building materials whenever possible. This is especially true for clean rubble. The statutory definition of clean rubble can be found in Kansas Statutes Annotated (K.S.A.) 65-3402(w) and states "Clean Rubble means the following types of construction and demolition waste: concrete and concrete products including reinforcing steel, asphalt pavement, brick, rock and uncontaminated soil ...". Unfortunately during demolition it is difficult to completely separate the clean rubble from the other construction and demolition (CD) waste. The regulations allow for the separating of different wastes (such as CD and clean rubble) at the site where the waste was generated. BWM recognizes that sometimes sorting the wastes on-site is not possible due to time or spatial constraints. If a mixed load (clean rubble and CD or trash) is removed from the site where it was generated, then a solid waste processing permit is typically required to sort or separate the different types of waste. If the mixed load is taken to a location that already has a solid waste permit, then the activity of sorting the wastes needs to be identified in that permit before the load is taken there for sorting.

Because BWM wants to encourage the reuse of as much of this material as possible, we are issuing a new Technical Guidance Document to help clarify some of the issues associated with recycling clean rubble. The new guidance document will help establish guidelines under which a permit may not be required to sort mixed loads of waste at a site other than where it was generated. The guidelines will only apply to loads that are predominantly clean rubble with very minimal amounts of trash and CD waste. Time frames will have to be established for the sorting process and local approvals may have to be obtained. Look for this new technical guidance document to be available soon on our website.

If you have questions or would like to implement a clean rubble salvaging project before this guidance is available, please contact your local KDHE district office or the Bureau of Waste Management in Topeka.



Methane Recovery at Kansas Landfills Grows

by Sam Sunderraj, Bureau of Waste Management

The biological degradation of municipal solid waste (MSW) in landfills generates gas byproducts. Methane and carbon dioxide each comprise about 45 to 50 percent of the total gas production with oxygen, nitrogen, hydrogen, and water vapor making up most of the remainder. Methane, also known as natural gas, is a colorless and odorless gas that is explosive in a concentration ranging from 5 to 15 percent by volume in air. Therefore, landfill gas (LFG) could be hazardous in enclosed spaces at a landfill or in nearby structures. Solid waste regulations require landfills to monitor and manage methane as specified in the Facility Operations Plan.

In August of 2007, Kansas Department of Health and Environment (KDHE) signed a Memorandum of Understanding with the Environmental Protection Agency

(EPA) which made the State of Kansas a State Partner of EPA's Landfill Methane Outreach Program (LMOP) which fosters the development of LFG energy projects. You may recall from the last issue of Solid Waste Update that last year Seward County received the Community Partner of the Year Award for the entire nation.

Presently, MSW landfills in Kansas manage LFG in various ways. Seward County combines LFG with methane generated in a nearby industrial wastewater lagoon for use in the beef packing plant that operates the lagoon. Gas from some landfills is beneficially used as fuel in infrared heaters and boilers while others purify

the gas to the level needed to inject it directly into natural gas pipelines. This year, Kansas' first LFG to electrical energy project has been implemented. Waste Management, Inc. in Topeka in cooperation with Westar Energy is installing seven

generators to produce electricity at Rolling Meadows Landfill (see picture).

Projects to recover LFG have major economic and environmental benefits. KDHE will continue

to encourage the development of additional LFG projects and partnerships to utilize rather than waste this valuable renewable energy resource.



Rolling Meadows Landfill, Topeka

Kansas Organization of Recyclers' Annual Conference



by *Debra Hoepner, Executive Director,*
Kansas Organization of Recyclers

Kansas Organization of Recyclers (KOR) will hold its Annual Conference and Training October 19-20, 2009 at the Ramada Inn in Salina, Kansas. The training has expanded to two days this year, and SWANA has certified the sessions as CEU eligible.

KOR is proud to bring you unique sessions by nationally known speakers you won't see at any other Kansas conference this year.

- **Wayne Eley, Founder and CEO of Soles4Souls (Nashville)**, who will talk about his international shoe recycling program
- **Jon Harvey, Central States Used Clothing (Detroit)**, will educate us about textiles recycling, and why we should never landfill textiles
- **Toni Boyles, national educator**, will teach us how to expand the way we develop new ideas, and
- **Jorge Farr-Aguilar, General Manager, Antek Madison Plastics USA (Chicago)**, will discuss identifying and recycling difficult and unusual materials

We didn't forget our excellent speakers from Kansas.

- **Jennifer Dawani, EPA**, will educate us about the EPA WasteWise Program
- **Bill Bider, KDHE BWM**, will update us on the status of recycling and other key solid waste issues in Kansas, and
- **Marty Kowalski, Sonoco Recycling**, will moderate a Markets and Questions session

(continued on page 7)

Universal Lubricants

(continued from page 1)

which allows UL to process off-site industrial wastewaters. After treatment, the wastewater will be discharged to the city of Wichita's sanitary sewer system.

UL staff and consultants worked with the KDHE to obtain a solid waste processing facility permit for the used oil re-refinery. Then the permit was amended to include the processing of off-site industrial wastewaters.

The KDHE congratulates UL for their forward thinking in providing Kansas with a recycling facility that allows used oils to be utilized again and again.



SWANA/KDHE Solid Waste Managers & Operators Training Course

November 4-5, Salina

The SWANA/Kansas "Sunflower Chapter" is taking on a new and expanded role as the lead sponsor in this year's training course. This year the training will cover MSWLFs, SALs, C&D landfills as well as transfer station operators and solid waste haulers and will include a tour of the City of Salina landfill. Normally, training for transfer station operators and haulers would not be held until the fall of 2010.

This two day course will provide quality training for new and experienced Kansas MSWLF, SAL, and C&D landfill operators, supervisors and managers, MSWTS operators, and solid waste haulers.

The registration form can be downloaded from http://www.kdheks.gov/waste/p_workshops.html or for more information, contact John Hawk, MASWU, at 620-241-6559, ext.302.



Solid Waste Plan Update

(continued from page 1)

be found at <https://www.dhe.state.ks.us/surveys/planupdate.htm>. If you would like us to send you a copy of the survey, please contact BWM at (785) 296-1600 or by e-mail bwm_web@kdheks.gov. You can also make a hard copy from the online version and send your completed survey to us. You must submit your completed survey by November 20, 2009 to be considered.

Following our review and analysis of submitted surveys, we will prepare a draft plan and schedule a meeting of interested stakeholders in either January or February 2010. We will receive comments on this preliminary version of the updated plan both in the meeting and through the mail. It is likely that we will make some changes to the draft plan based upon stakeholder recommendations. The final plan will be officially adopted by the KDHE secretary, hopefully in early spring 2010.

I hope you will take the time to complete our survey so we can prepare our initial draft based upon input received from a large number of interested Kansans. Thanks in advance for helping us complete this important project.



The Pledge to Renew

Sept 27 - Oct 3, 2009



The Kansas Department of Health and Environment (KDHE), Bureau of Waste Management, hosted the first-ever "Recycle Cycle - Pledge to Renew" September 27 through October 3. Along the 466-mile ride from the Colorado border to Pittsburg, KS, the riders made stops in several key cities to promote awareness of recycling efforts and programs within the state of Kansas.



www.RecycleCycle.org www.ksewaste.org

Information Exchange

The Bureau of Waste Management has recently established a new online "Information Exchange" for persons interested in sharing questions, answers, and comments related to solid waste management in Kansas. You can access the information exchange network by going to http://www.kdheks.gov/waste/p_q&a_intro.html.

The "Exchange" is organized according to subject to facilitate its use. We hope you take advantage of this easy to use system of communication to help you do your job better and to share your knowledge to help others as well. The network allows you to choose whether to identify yourself or not when your questions or answers appear online. The system also is designed to keep you notified of changes or additions to subject areas where you have the greatest interest, if you would like to receive such notifications.

Please let us know what you think about the Information Exchange and its value in helping you perform your job. We recognize that the Exchange is presently of limited value until more people begin utilizing it. At present, there are many questions in the Exchange seeking feedback from individuals who have knowledge and experience in various waste management areas.

Thanks for helping make this new communication tool a success.

www.kdheks.gov/waste



“Green School”

(continued from page 2)

Other highlights of the Green School Initiative involve ongoing partnership development with the Mid-America Chapter of the United States Green Building Council, the KDHE Coordinated School Health Program, the Kansas Association for Conservation and Environmental Education (KACEE) and Westar Energy. BWM also sponsored the first Kansas Green Schools Conference in Wichita which included more than 150 registrants.



www.KansasGreenSchools.org



photo courtesy of Wally Mack, KDHE

Do you know where these Kansas scenes are located?



photo courtesy of Kansas Geologic Survey



photo courtesy of Bill Bider, KDHE



photo courtesy of Kansas Geologic Survey

KANSAS DON'T SPOIL IT!

1) Mushroom Rock State Park, Ellsworth County; 2) Tallgrass Prairie National Preserve, Cherokee County; 3) Monument Rocks, Gove County; 4) Mine chat piles, Chase County

“KOR”

(continued from page 4)

We'll tour the **Philips Lighting plant** in Salina - many were disappointed the tour was cancelled at WORKS!, so here's your chance. Of course, the always popular **Social and Texas Hold'em Poker Tournament** returns this year. The chips are free, so there is no money involved, but lots of fun is assured.

For additional information about attending the KOR Conference, contact KOR's Executive Director, Debra Hoepner, at 316-722-0919, or download forms and schedule at www.kskor.org/conference.



Who is this BWM Staff Member?
Juan Sexton, Chief,
Solid Waste Hydrologic Unit
-- at Oceanside, California



Kansas Department of Health and Environment - Bureau of Waste Management
www.kdheks.gov/waste www.getcaughtrecycling.org
www.kansasdontspoilit.com www.kansasgreenteams.org

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Calendar Items

- | | |
|---------------------|---|
| November 4 - 5 | SWANA/KDHE Solid Waste Managers and Operators Training Course
- Salina |
| November 20 | State Solid Waste Management Plan Survey deadline |
| March 23 - 25, 2010 | 2010 <i>WORKS!</i>
- Junction City |



Solid Waste Update

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