

Solid Waste Best Management Practices

Department of Environmental Protection
Division of Waste Management
Field Operations Branch



Division of Waste Management

- The Division of Waste Management is Comprised of 6 Branches:

- Hazardous Waste
- Solid Waste
- Underground Storage Tank
- Recycling and Local Assistance
- Superfund
- Field Operations



Field Operations Branch Locations

•The Division of Waste Management Field Operations Branch is comprised of 10 Regional Offices and 1 Central Office located in Frankfort, KY.



Field Operations Branch Mission

- Identify and abate imminent threats to human health and the environment through:
 - Inspections
 - Technical Assistance
 - Education



Regulated Areas

- **Hazardous Waste**

- Facilities/transporters who generate, transport, treat, store and dispose. (factories, trucking companies, incinerators, etc.)

- **Solid Waste**

- Facilities who transport and dispose. (Landfills, Transfer Stations, Recycling Centers, etc.)

- **Underground Storage Tanks (UST's)**

- Facilities who store potential hazardous materials in underground tanks. (Gas Stations, Hospitals, Schools, etc.)

- **Complaint Investigations**

- Complaints that are received from the general public on possible adverse effects to human health and environment. (Open dumps, spills, improper disposal, etc.)



Waste Management on the Farm

- Farm Fuel Tanks
 - Regulation, Removal, and Management
- Animal Disposal/Composting
 - Environmental Performance Standards
- Waste Oil
 - Regulation, Disposal, and Management
- Open Dumps
 - Regulation, Correct Disposal
- Tires
 - Regulation, Exemption, and Management
- Land Farming
 - Regulation, and Management



Underground Storage Tank Regulations

- KRS 224.60 -100 - Tanks that are 10% or more below ground and are used for storing a regulated substance.
- Exemption to Farm Fuel Tanks
 - Farm or Residential Tanks of 1,100 gallons or less used for storing fuel for non-commercial purposes.

Farm Fuel Tanks

- Above Ground Tanks Best Management Practices (BMP's)
 - Replace leaking hoses, minimize spills, examine tank integrity often.



Farm Fuel Tanks

- Underground Storage Tank BMP's
 - Replace leaking hoses, minimize spills



Farm Fuel Tanks

- Things to look for if you suspect a leak in an underground tank.
 - Unexpected loss of fuel from the tank
 - Dead vegetation around where tank is located
 - Strong odor after rain events/ sheen.
 - Product coming out of the ground.



Animal Disposal

- Regulated by Kentucky Department of Agriculture
- Complete Incineration
- Proper Burying
- Taken to a Licensed Rendering Facility*
- Taken to an Approved Landfill*
- Composting at an approved Compost Facility*



*The Division of Waste Management regulates the Environmental Performance Standards for these types of facilities.

Proper Burial

- KRS 257.160
 - Buried at least 4 feet deep.
 - Body cavity vented
 - Covered with quicklime or burnt lime
 - Backfilled with at least 3 feet of soil
 - Site shall be at least 100 feet streams, sinkholes, well, spring, public highway or residence.

Animal Disposal

Dead Animal Pickup in Kentucky

#	Renderer Name	City	State	Phone	Pickup Dead Animals?
1	A & S LIVESTOCK, INC.	RUSSELL SPRINGS	KY	270-566-2421	YES
2	BLUEGRASS RECYCLING SERVICE INC	WINCHESTER	KY	812-663-8391	YES
3	CONBOY ENTERPRISES/HORSE HEARSE	LEXINGTON	KY	859-221-6998	YES
4	ELMTREE ANIMAL REMOVAL	TAYLORSVILLE	KY	502-902-1259	YES
5	FRANKLIN COUNTY FISCAL COURT	FRANKFORT	KY	502-875-8751	YES
6	HARMON BROTHERS MEATS INC	WARSAW	KY	859-567-1212	YES
7	LAKESIDE RECYCLING INC	GLASGOW	KY	270-678-5202	YES
8	LARGE ANIMAL COMPOSTING OF KENTUCKY	LIBERTY	KY	859-583-3193	YES
9	LINCOLN CO ROAD DEPT	STANFORD	KY	606-365-4560	YES
10	MADISON CO SOLID WASTE	RICHMOND	KY	859-624-4709	YES
11	MARION CO HWY MAINTENANCE FACILITY	LEBANON	KY	270-692-4181	YES
12	MASON CO FISCAL COURT	MAYSVILLE	KY	606-584-4958	YES
13	NELSON COUNTY SOLID WASTE	BARDSTOWN	KY	502-348-1876	YES
14	PULASKI COUNTY FISCAL COURT	SOMERSET	KY	606-305-3385	YES
15	ROWAN CO ROAD DEPT	MOREHEAD	KY	606-784-5151	YES
16	WASHINGTON CO FISCAL COURT	SPRINGFIELD	KY	859-336-5410	YES
17	WRIGHT OF WAY FARM STOCK REMOVAL	MIDWAY	KY	502-695-2183	YES
18	HERD PACK LLC	LANESVILLE	IN	812-297-1312	YES
19	STANDARD FERTILIZER CO	GREENSBURG	IN	812-663-8391	YES
20	SHIPLEY & SON FARMS LLC	BETHEL	OH	513-734-1818	YES
21	EQUITY GROUP - KENTUCKY DIVISION LLC	ALBANY	KY	606-387-2226	NO
22	GRIFFIN INDUSTRIES - BUTLER	BUTLER	KY	859-472-7361	NO
23	GRIFFIN INDUSTRIES - RUSSELLVILLE	RUSSELLVILLE	KY	270-726-7605	NO
24	NATIONAL CO-PRODUCTS LLC	BURLINGTON	KY	859-371-4789	NO
25	RIVER VALLEY ANIMAL FOODS	HENDERSON	KY	270-521-3150	NO
26	TASMAN INDUSTRIES INC	LOUISVILLE	KY	502-587-0701	NO
27	VOCARS LLC	LOUISVILLE	KY	502-276-6410	NO
28	DARLING INTERNATIONAL INC IL	NATIONAL STOCKYARDS	IL	618-271-8190	NO
29	MILLSTADT RENDERING CO	BELLEVILLE	IL	618-538-5312	NO
30	RESTAURANT TECHNOLOGIES INC	SHARONVILLE	OH	651-757-4630	NO
31	VALLEY PROTEINS INC	STRAWBERRY PLAINS	TN	540-877-2590	NO

Used Oil Management

- Oil is the lifeblood of any equipment used on the farm.



Kentucky
UNBRIDLED SPIRIT

Used Oil Management

- Under the Resource Conservation and Recovery Act (RCRA) of 1976. Used oil is a regulated waste.
 - 40 CFR Part 279.1 defines a “used oil generator”.
“Any person, by site, whose act or process produces used oil or whose act first causes used oil to become subject to regulation.”
 - **Some** farmers have an exemption.
 - Average production of 25 gallons or less per month per calendar year. (\leq 300 gallons per year).
 - Has to be from that farming operation.
 - Can be taken to a local collection point for recycling

<http://www.earth911.org/>



Used Oil Management

- Requirements for used oil generators that are not exempt.
 - Might require a Spill Prevention, Control, Countermeasure (SPCC) plan.
 - Storage containers must be in good condition.
 - Must label containers with words “Used Oil”
 - If oil is spilled or released above the reportable quantity, then the generator must report the spill.



Used Oil Management

- Used Oil for Heat
 - Space heater exemption
 - Only used oil that the facility generates
 - The space heater burning the oil is rated at no more than .5 million BTU.
 - Combustion gases are vented to the ambient air.
- Used Oil for Lubrication
 - No regulations governing using it for lubrication.
 - Keep the spills to a minimum.
 - Put containers down to catch the oil.
- Used Oil for a Dust Suppressant
 - Strictly prohibited



Farm Dumps



Open Dumping Statues

- **KRS 224.40-100-** Disposal at other than permitted site or facility prohibited
- **KRS 224.40-305-** Establishing, constructing, operating, maintaining or permitting the use of a waste site prohibited

Farm Dumps



Farm Dumps



Farm Dumps



Farm Dumps



Animal Composting Sites



401 KAR 30:031

- Section 2: Floodplains
- Section 4: Surface Waters
- Section 8: Disease Vectors
- Section 10: Safety (3) Access
- Section 13 Karst
- Section 14 Compliance

Waste Tires



Waste Tires

- **KRS 224.50-856 (2)**-No person shall accumulate more than 25 waste tires for processing
- **KRS 224.50-856 (3)**-No person shall transport more than 50 waste tires at a time
- **KRS 224.50-856 (4)**-No person shall accumulate more than 100 waste tires at a time

Waste Tires



Waste Tires



EXEMPTIONS

- **KRS.50-854**-The waste tire program shall not apply to:

*A person who accumulates waste tires for an **agricultural purpose.***

Waste Tires



Waste Tires



Waste Tires



Waste Tires



Landfarming

Special Waste-High Volume Low Hazard

*Sludge from water treatment and
wastewater treatment facilities*

Permit Required

*Type B Special Waste
Landfarming Permit*

Landfarming

- Operator Certification
- Post a Sign
- Waste and Soil Sampling
- Application Rate Restrictions
- Subplots Markings
- Required Setbacks
- Grazing and Cropping Restrictions

Landfarming



Landfarming



Landfarming



Landfarming



Environmental Response Team



Environmental Response Team

- **KRS 224.1-400 (11)-Duty to Report**

25 gallons or more (75 gallons Diesel)

Any quantity if a release is to the
“Waters of the Commonwealth”

- **KRS 224.1-400 (18)-Duty of Characterize and Remediate**

Environmental Response Team

Cabinet's 24-Hour Spill Reporting Hotline

1-800-928-2380

Environmental Response Team



Environmental Response Team



Environmental Response Team



Environmental Response Team



Environmental Response Team



Questions ?

