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

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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.**

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Field Operations Branch Mission

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

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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.)

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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

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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.

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Farm Fuel Tanks

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

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Farm Fuel Tanks

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

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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.

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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.

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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.

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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

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Used Oil Management

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

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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. (≤ 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/

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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.

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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

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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

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Animal Composting Sites

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Environmental Performance Standards

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

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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

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Landfarming

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Landfarming

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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

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Questions ?