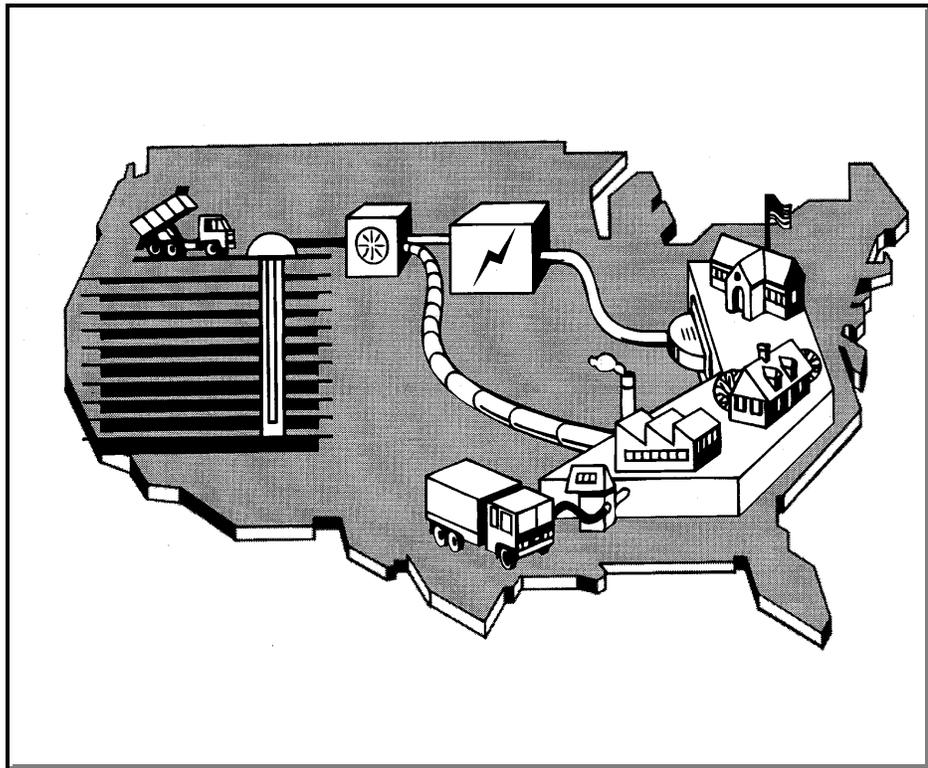




Landfill Gas-to-Energy Project Opportunities

Landfill Profiles for the State of Kentucky



EPA Landfill Methane Outreach Program



The EPA Landfill Methane Outreach Program, a key component of the United State's *Climate Change Action Plan*, encourages the use of landfill gas (LFG) as an energy resource. EPA assists utilities, municipal and private landfill owners and operators, tribes, and state agencies in reducing methane emissions from landfills through the development of profitable landfill energy recovery projects. Methane captured from landfills can be transformed into a cost-effective fuel source for electricity, heat, boiler and vehicular fuel, or sale to a pipeline. EPA estimates there are approximately 200 landfill methane recovery projects in the U.S. and that up to 750 landfills could install economically viable landfill energy projects.

The Landfill Methane Outreach Program includes five important components: the State Ally, Energy Ally, Industry Ally, Community Partner, and Endorser programs. EPA establishes separate alliances with state agencies, energy providers (including investor-owned, municipal and other public power utilities and cooperatives), key trade and public sector associations, members of the landfill gas development industry (including developers, engineers, equipment vendors, and others) and local communities, municipalities and landfill owner/operators through a Memorandum of Understanding (MOU). By signing the MOU, each Ally/Partner acknowledges a shared commitment to the promotion of landfill gas-to-energy recovery at solid waste landfills, recognizes that the widespread use of landfill gas will reduce emissions of methane and other gases, and commits to undertake activities to enhance development of this resource. In return, EPA agrees to provide landfill gas-to-energy project assistance and public recognition of the Allies' and Partners' participation in the program.

Introduction

Since 1994 the U.S. EPA's Landfill Methane Outreach Program (LMOP) has participated in an ongoing effort to gather information on Municipal Solid Waste landfills (MSW). A key component of the LMOP is to provide MSW landfill owners and operators, project developers, utilities, and other potential project participants with information on MSW landfills that may offer attractive energy development opportunities. This document presents state specific landfill information, hereinafter referred to as the landfill profiles. These profiles are useful to evaluate the potential for developing landfill gas-to-energy projects (LFGTE). EPA assembled this information from state and local sources as well as various national solid waste publications, landfill owners and operators, and project developers.

The EPA has prepared a separate document to describe the methodology used to develop the state-specific landfill profiles and estimate the benefits of using LFGTE as an energy source. The document, *Landfill Gas-to-Energy Project Opportunities, Background Information on Landfill Profiles*, contains background information on gas collection and use, describes the data fields according to the five sections listed on the landfill profiles, and where applicable, illustrates calculations and default values used to derive estimates. EPA strongly recommends that users read the document prior to using the landfill profiles. Users can obtain the document by calling the LMOP hotline at 1-888-STAR-YES.

Data Sources

- EPA-ORD Landfill Gas Utilization-Survey (Thorneloe, 1997)
- Directory and Atlas of Solid Waste Disposal Facilities (SWA, 1994)
- Implementation Guide for Landfill Gas Recovery Projects in the Northeast (SCS, 1994)
- Landfill Gas-to-Energy 1994-1995 Activity Report (SWT, 1994)
- Methane Recovery from Landfill Yearbook (GAA, 1994)
- Project developers, landfill owners, and operators
- State and local records
- Survey of Landfill Gas Generation Potential (EPRI, 1992)
- U.S. Landfill Directory (SWANA, 1992)

Landfill Classification

To facilitate the use of available landfill information, EPA has categorized the landfills into five categories: Current Project,¹ Candidate Project, Shutdown, Other, and Unknown waste-in-place (WIP). These categories are based on the status of the landfill's LFGTE project(s) and WIP. The generation of methane is a function of many factors, the most critical being the amount of waste-in-place and the number of years the waste has been in the landfill. Peak methane generation occurs soon after closure; therefore, the longer the landfill has been closed, the less attractive it becomes for methane recovery. Based on the general timing of peak methane generation, EPA assumes that landfills that ceased accepting waste prior to 1993 have a low probability of generating enough methane to make a gas recovery project economical. Consequently, landfills need to be operating in 1993 to be considered as having a Candidate Project.

Landfill Categorizes

Current Project:

- Landfill with operational LFGTE project or landfill with LFGTE project under construction.

Candidate Project:

- Landfill with a potential or planned LFGTE utilization project; or
- Landfill is currently operating or closed after 1993; and has more than 1,000,000 tons of municipal solid waste-in-place.²

Shutdown:

- Landfill with shutdown LFGTE project.

Other:

- Landfill has less than 1,000,000 tons of municipal solid waste-in-place with no current or planned LFGTE project.

Unknown WIP:

- Landfill with insufficient data to determine the waste-in-place.

State Summary

State-specific landfill profile information is summarized in three exhibits. Exhibit 1 presents a summary of the state-specific potential for LFG utilization energy by landfill category. Exhibit 2 summarizes the emissions avoided by fossil fuel displacement for electricity generation and direct use projects. Exhibit 3 presents an index of the state-specific MSW landfills, referenced by category, landfill name and general characteristics.

¹ Current projects illustrate the wide range of successful project development options.

² By modeling the relationship between WIP and methane generation, a cut-off of 1,000,000 tons of WIP was established; landfills having at least 1,000,000 tons of WIP are considered candidate landfills.



Exhibit 1: Kentucky MSW Landfill Summary

Category	No. of Landfills	Est. Capacity Potential		Est. CH4 Generation (mmscf/d)	Methane Reduction (tons/yr)		CO2 Equivalent of CH4 Reduction (tons/yr)	
		Electricity (MW)	Gas Capacity (mmBtu/hr)		Potential	Current	Potential	Current
Current	1	31	314	10	58,082	11,563	1,219,716	242,827
Candidate	21	70	700	22	129,574	0	2,721,044	0
Other	6	6	62	2	11,524	0	242,015	0
Unknown WIP	4							
Total	32	108	1,077	34	199,180	11,563	4,182,774	242,827

Exhibit 2: Potential Kentucky Emissions Avoided by Fossil Fuel Displacement

Category	Electricity Generation Project						Direct Use Project					
	CO2 (tons/yr)			SO2 (tons/yr)			CO2 (tons/yr)			SO2 (tons/yr)		
	Coal	Oil	Natural Gas	Coal	Oil	Natural Gas	Coal	Oil	Natural Gas	Coal	Oil	Natural Gas
Current	247,833	203,410	136,776	1,567	1,309	0	174,905	143,554	96,528	1,592	837	1
Candidate	552,493	453,462	304,914	3,492	2,919	0	390,193	320,253	215,343	3,551	1,866	2
Other	48,935	40,164	27,007	309	258	0	34,705	28,484	19,153	316	166	0
Unknown WIP												
Total	849,261	697,035	468,696	5,368	4,487	0	599,803	492,291	331,023	5,458	2,869	3

Exhibit 3: Index of Landfills in Kentucky

Category	Landfill Name	WIP			Landfill Operating in 1998	LFG Collected	LFG Utilization Project	Status of LFGTE Project
		<2.5 million tons	2.5 to 4 million tons	>4 million tons				
Current	Outer Loop RDF	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Construction
Candidate	Addington Environmental/Tri-K	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Bavarian Trucking Company LF	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Potential
Candidate	BFI/Franklin LF	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	City of Bowling Green LF	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Potential
Candidate	City of Glasgow LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Potential
Candidate	City of Hopkinsville LF	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Potential
Candidate	City of Owensboro LF	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Potential
Candidate	Cooksey Brothers Disposal Company L	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Potential
Candidate	Dozit Company LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Potential
Candidate	Epperson Waste Disposal Company LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Planned
Candidate	Hardin County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Potential
Candidate	Laidlaw/Valley View LF	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Laurel Ridge LF	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	LWD SLF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	McCracken County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Potential
Candidate	Ohio County Balefill	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Pulaski Grading LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Rumpke/Montgomery County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Southern Sanitation LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Potential
Candidate	Williams LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	WMI/Lexington-Fayette LF	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Green Valley Environmental Corp LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Jones Sanitation LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Local Sanitation LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Rumpke/Pendleton County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Tri-County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	WMI/Blue Ridge RDF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Unknown WIP	City of Richmond LF	<input type="checkbox"/>	<input type="checkbox"/>	Unknown				
Unknown WIP	Daviess County LF	<input type="checkbox"/>	<input type="checkbox"/>	Unknown				
Unknown WIP	Louisville	<input type="checkbox"/>	<input type="checkbox"/>	Unknown				
Unknown WIP	Pike County LF	<input type="checkbox"/>	<input type="checkbox"/>	Unknown				

A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Addington Environmental, Inc	Annual Acceptance Rate (tons):	132,585
Landfill Owner Type:	Private	Year Annual Acceptance Rate Reported:	1994
Alternative Landfill Name:	Tri-K LF	Design Capacity (tons):	
City:	Stanford	Acres Currently Landfilled (acres):	
County:	Lincoln	Average Depth (feet):	
State:	KY	Waste-in-Place (tons):	3,502,499
Year Open:	1971	1998 Waste-in-Place (tons):	3,771,922
Year Closed:	2032		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	1.38
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:			
Utilization System Status:	Unknown		
Utilization System Type:	Unknown		
Utilization System Start Year:			
Electric Utility Provider(s):			
Natural Gas Provider(s):			
Energy Purchaser(s):			
Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	4	43
Current Capacity:		
Planned Capacity:		

Utilities in County: Inter-County Rural E C C; Kentucky Utilities Company; South Kentucky Rural E C C; Southeastern P

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	7,995		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	167,885		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	33,939	215	24,074	219
<i>Fuel Oil:</i>	27,856	179	19,759	115
<i>Natural Gas:</i>	18,730	0	13,286	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Dale Kirkpatrick	Dale Kirkpatrick
Mailing Address:	PO Box 435	3445 Skyline Drive
Phone Number:	606-365-7806	606-365-7806
Fax Number:		

* *Italicized indicates values estimated by EPA.*

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	BFI	Annual Acceptance Rate (tons):	295,868
Landfill Owner Type:	Private	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:	Franklin LF	Design Capacity (tons):	
City:	Frankfort	Acres Currently Landfilled (acres):	
County:	Franklin	Average Depth (feet):	
State:	KY	Waste-in-Place (tons):	4,142,152
Year Open:	1983	1998 Waste-in-Place (tons):	4,733,888
Year Closed:	2012		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	1.63
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:			
Utilization System Status:	Unknown		
Utilization System Type:	Unknown		
Utilization System Start Year:			
Electric Utility Provider(s):			
Natural Gas Provider(s):			
Energy Purchaser(s):			
Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
Estimated Potential Capacity:	5		51
Current Capacity:			
Planned Capacity:			

Utilities in County: Fox Creek Rural Elec Coop Corp; Frankfort Electric & Wtr Plant Brd; Kentucky Utilities Company; S

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	9,417		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	197,759		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	40,253	254	28,358	258
<i>Fuel Oil:</i>	33,038	213	23,275	136
<i>Natural Gas:</i>	22,215	0	15,651	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	Greg Stephens	Mike
Mailing Address:	2157 Highway 151	2157 Highway 151
Phone Number:	502-227-7257	502-227-7257
Fax Number:		

* *Italicized indicates values estimated by EPA.*

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Bavarian Waste Services, Inc.	Annual Acceptance Rate (tons):	128,700
Landfill Owner Type:	Private	Year Annual Acceptance Rate Reported:	1998
Alternative Landfill Name:		Design Capacity (tons):	
City:	Independence	Acres Currently Landfilled (acres):	
County:	Boone	Average Depth (feet):	
State:	KY	Waste-in-Place (tons):	4,582,464
Year Open:	1973	1998 Waste-in-Place (tons):	4,964,336
Year Closed:	2015		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	1.69
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:			
Utilization System Status:	Potential		
Utilization System Type:	Unknown		
Utilization System Start Year:			
Electric Utility Provider(s):			
Natural Gas Provider(s):			
Energy Purchaser(s):			
Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
Estimated Potential Capacity:	5		53
Current Capacity:			
Planned Capacity:			

Utilities in County: Henderson-Union Rural E C C; Kentucky Utilities Company; Owen Electric Cooperative Inc; Southea

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	9,758		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	204,916		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	41,832	264	29,384	267
<i>Fuel Oil:</i>	34,334	221	24,117	141
<i>Natural Gas:</i>	23,086	0	16,217	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Jim Brugerman	Rick Brugerman
Mailing Address:	12764 McCoy Fork Road	12764 McCoy Fork Road
Phone Number:	606-485-4416	606-485-4416
Fax Number:		

* *Italicized indicates values estimated by EPA.*



A. GENERAL LANDFILL INFORMATION

Landfill Owner:	City of Bowling Green	Annual Acceptance Rate (tons):	64,350
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1998
Alternative Landfill Name:		Design Capacity (tons):	
City:	Bowling Green	Acres Currently Landfilled (acres):	90
County:	Butler	Average Depth (feet):	40
State:	KY	Waste-in-Place (tons):	2,574,000
Year Open:	1979	1998 Waste-in-Place (tons):	2,574,000
Year Closed:	1992		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	1.08
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:			
Utilization System Status:	Potential		
Utilization System Type:	Unknown		
Utilization System Start Year:			
Electric Utility Provider(s):			
Natural Gas Provider(s):			
Energy Purchaser(s):			
Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
Estimated Potential Capacity:	3		34
Current Capacity:			
Planned Capacity:			

Utilities in County: Pennyriple Rural Elec Coop Corp; Southeastern Power Admin; Warren Rural Elec Coop Corp

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	6,223		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	130,683		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	26,835	170	18,740	171
<i>Fuel Oil:</i>	22,025	142	15,381	90
<i>Natural Gas:</i>	14,810	0	10,342	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	William Hayes	William Hayes
Mailing Address:	P.O. Box 430	PO Box 430
Phone Number:	502-843-5628	502-843-5628
Fax Number:		

* *Italicized indicates values estimated by EPA.*

A. GENERAL LANDFILL INFORMATION

Landfill Owner:	City of Glasgow	Annual Acceptance Rate (tons):	57,200
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1998
Alternative Landfill Name:	Glasgow LF	Design Capacity (tons):	
City:	Glasgow	Acres Currently Landfilled (acres):	130
County:	Barren	Average Depth (feet):	50
State:	KY	Waste-in-Place (tons):	1,414,608
Year Open:	1971	1998 Waste-in-Place (tons):	1,523,424
Year Closed:	2027		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.81
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status:	Potential
Utilization System Type:	Unknown
Utilization System Start Year:	
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	3	25
Current Capacity:		
Planned Capacity:		

Utilities in County: Farmers Rural Elec Coop Corp; Glasgow Electric Plant Bd; Kentucky Utilities Company; Tennessee

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	4,670		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	98,060		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	19,732	125	14,061	128
<i>Fuel Oil:</i>	16,195	104	11,541	67
<i>Natural Gas:</i>	10,890	0	7,760	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Jack Chadwell, Director of Public Works	Alvi Morgan, Landfill Engineer
Mailing Address:	118 E. Washington Street	118 E. Washington Street
Phone Number:	502-651-5977	606-231-9831
Fax Number:		

* *Italicized indicates values estimated by EPA.*

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	City of Hopkinsville	Annual Acceptance Rate (tons):	84,864
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1994
Alternative Landfill Name:	Hopkinsville LF	Design Capacity (tons):	
City:	Hopkinsville	Acres Currently Landfilled (acres):	240
County:	Christian	Average Depth (feet):	180
State:	KY	Waste-in-Place (tons):	2,439,142
Year Open:	1960	1998 Waste-in-Place (tons):	2,505,066
Year Closed:	1997		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.92
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:			
Utilization System Status:	Potential		
Utilization System Type:	Unknown		
Utilization System Start Year:			
Electric Utility Provider(s):			
Natural Gas Provider(s):			
Energy Purchaser(s):			
Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
Estimated Potential Capacity:	3		29
Current Capacity:			
Planned Capacity:			

Utilities in County: Hopkinsville Elec System; Kentucky Utilities Company; Pennyriale Rural Elec Coop Corp; Tennessee

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		Current	
<i>Methane Reduction (tons/yr):</i>	5,320		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	111,722		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	22,889	145	16,021	146
<i>Fuel Oil:</i>	18,786	121	13,149	77
<i>Natural Gas:</i>	12,632	0	8,842	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Rick Deason, Director, Public Works	Mark Withers
Mailing Address:	PO Box 707	Municipal Building PO Box 707; 101 N. Main
Phone Number:	502-887-4011	502-887-4007
Fax Number:		

* *Italicized indicates values estimated by EPA.*

A. GENERAL LANDFILL INFORMATION

Landfill Owner:	City of Owensboro	Annual Acceptance Rate (tons):	
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1992
Alternative Landfill Name:		Design Capacity (tons):	
City:	Owensboro	Acres Currently Landfilled (acres):	70
County:	Daviess	Average Depth (feet):	50
State:	KY	Waste-in-Place (tons):	2,599,178
Year Open:	1971	1998 Waste-in-Place (tons):	2,599,179
Year Closed:	1993		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	1.08
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:			
Utilization System Status:	Potential		
Utilization System Type:	Unknown		
Utilization System Start Year:			
Electric Utility Provider(s):			
Natural Gas Provider(s):			
Energy Purchaser(s):			
Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
Estimated Potential Capacity:	3		34
Current Capacity:			
Planned Capacity:			

Utilities in County: Green River Electric Corp; Kentucky Utilities Company; Owensboro Municipal Utils; Southeastern P

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	6,260		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	131,466		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	26,835	170	18,852	172
<i>Fuel Oil:</i>	22,025	142	15,473	90
<i>Natural Gas:</i>	14,810	0	10,404	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Marwan Rayan, Landfill Engineer	Cissy Gregson
Mailing Address:	P.O. Box 10003	
Phone Number:	502-687-8643	502-687-8760
Fax Number:		

* *Italicized indicates values estimated by EPA.*

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Cooksey Brothers Disposal Company, Inc.	Annual Acceptance Rate (tons):	132,783
Landfill Owner Type:	Private	Year Annual Acceptance Rate Reported:	1994
Alternative Landfill Name:		Design Capacity (tons):	
City:	Ashland	Acres Currently Landfilled (acres):	70
County:	Boyd	Average Depth (feet):	
State:	KY	Waste-in-Place (tons):	4,500,516
Year Open:	1970	1998 Waste-in-Place (tons):	5,019,807
Year Closed:	2004		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	1.70
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:			
Utilization System Status:	Potential		
Utilization System Type:	Unknown		
Utilization System Start Year:			
Electric Utility Provider(s):			
Natural Gas Provider(s):			
Energy Purchaser(s):			
Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
Estimated Potential Capacity:	5		53
Current Capacity:			
Planned Capacity:			

Utilities in County: Kentucky Power Company; Southeastern Power Admin

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	9,840		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	206,638		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	41,832	264	29,632	270
<i>Fuel Oil:</i>	34,334	221	24,320	142
<i>Natural Gas:</i>	23,086	0	16,353	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Keith Cooksey, President, Cooksey Disposal	Keith Cooksey, President
Mailing Address:	15400 Ellington Run	200 Home Federal Building
Phone Number:	606-928-9633	606-928-9633
Fax Number:		

* *Italicized indicates values estimated by EPA.*

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Dozit Company, Inc	Annual Acceptance Rate (tons):	82,389
Landfill Owner Type:	Private	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:	Addington Environmental/Dozit Company L	Design Capacity (tons):	
City:		Acres Currently Landfilled (acres):	
County:	Union	Average Depth (feet):	
State:	KY	Waste-in-Place (tons):	1,235,835
Year Open:	1982	1998 Waste-in-Place (tons):	1,400,613
Year Closed:			

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.78
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:			
Utilization System Status:	Potential		
Utilization System Type:	Unknown		
Utilization System Start Year:			
Electric Utility Provider(s):			
Natural Gas Provider(s):			
Energy Purchaser(s):			
Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
Estimated Potential Capacity:	2		24
Current Capacity:			
Planned Capacity:			

Utilities in County: Henderson-Union Rural E C C; Kentucky Utilities Company; Southeastern Power Admin

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>		4,488		0
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>		94,244		0
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	18,943	120	13,515	123
<i>Fuel Oil:</i>	15,547	100	11,092	65
<i>Natural Gas:</i>	10,454	0	7,459	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:		Kevin Phelps
Mailing Address:	4075 Highway 360	4075 Highway 360
Phone Number:	502-822-4289	502-822-4289
Fax Number:		

* *Italicized indicates values estimated by EPA.*

A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Epperson Waste Disposal	Annual Acceptance Rate (tons):	68,794
Landfill Owner Type:	Private	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:		Acres Currently Landfilled (acres):	
County:	Grant	Average Depth (feet):	
State:	KY	Waste-in-Place (tons):	1,857,438
Year Open:	1992	1998 Waste-in-Place (tons):	481,558
Year Closed:	2050		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.17
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:			
Utilization System Status:	Planned		
Utilization System Type:	High Btu		
Utilization System Start Year:	2001		
Electric Utility Provider(s):			
Natural Gas Provider(s):			
Energy Purchaser(s):	None		
Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
Estimated Potential Capacity:	1		5
Current Capacity:			
Planned Capacity:			

Utilities in County: Harrison County Rural E C C; Kentucky Utilities Company; Owen Electric Cooperative Inc; Southeast

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	984		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	20,662		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	3,946	25	2,963	27
<i>Fuel Oil:</i>	3,239	21	2,432	14
<i>Natural Gas:</i>	2,178	0	1,635	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Bob Bradley	Bob Bradley
Mailing Address:	P.O. Box 117	P.O. Box 117
Phone Number:	606-824-5466	606-824-6026
Fax Number:		

* *Italicized indicates values estimated by EPA.*

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Hardin County- Fiscal Court	Annual Acceptance Rate (tons):	65,694
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1991
Alternative Landfill Name:		Design Capacity (tons):	
City:		Acres Currently Landfilled (acres):	
County:	Hardin	Average Depth (feet):	
State:	KY	Waste-in-Place (tons):	1,576,656
Year Open:	1968	1998 Waste-in-Place (tons):	1,642,350
Year Closed:	1992		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.84
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:			
Utilization System Status:	Potential		
Utilization System Type:	Unknown		
Utilization System Start Year:			
Electric Utility Provider(s):			
Natural Gas Provider(s):			
Energy Purchaser(s):			
Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
Estimated Potential Capacity:	3		26
Current Capacity:			
Planned Capacity:			

Utilities in County: Kentucky Utilities Company; Louisville Gas & Electric Co; Meade County Rural E C C; Nolin Rural

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		Current	
Methane Reduction (tons/yr):	4,845		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	101,751		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
Coal:	20,521	130	14,591	133
Fuel Oil:	16,843	108	11,976	70
Natural Gas:	11,325	0	8,053	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Mickey Sutherland	Mickey Sutherland
Mailing Address:	14 Public Square	
Phone Number:	502-765-2350	502-737-5314
Fax Number:		

* *Italicized indicates values estimated by EPA.*

A. GENERAL LANDFILL INFORMATION

Landfill Owner:	LWD Sanitary Landfill, Inc.	Annual Acceptance Rate (tons):	32,911
Landfill Owner Type:		Year Annual Acceptance Rate Reported:	1994
Alternative Landfill Name:		Design Capacity (tons):	
City:		Acres Currently Landfilled (acres):	
County:	Marshall	Average Depth (feet):	
State:	KY	Waste-in-Place (tons):	980,525
Year Open:	1971	1998 Waste-in-Place (tons):	1,055,950
Year Closed:	2007		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.69
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:			
Utilization System Status:	Unknown		
Utilization System Type:	Unknown		
Utilization System Start Year:			
Electric Utility Provider(s):			
Natural Gas Provider(s):			
Energy Purchaser(s):			
Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
Estimated Potential Capacity:	2		22
Current Capacity:			
Planned Capacity:			

Utilities in County: Benton Electric System; Jackson Purchase El Coop Corp; Kentucky Utilities Company; Tennessee Va

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>		3,978		0
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>		83,542		0
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	17,364	110	11,980	109
<i>Fuel Oil:</i>	14,252	92	9,832	57
<i>Natural Gas:</i>	9,583	0	6,611	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:		Amos Shelton
Mailing Address:	P.O. Box 327	
Phone Number:	502-395-8313	502-395-8313
Fax Number:		

* *Italicized indicates values estimated by EPA.*

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Laidlaw Waste Systems, Inc.	Annual Acceptance Rate (tons):	324,416
Landfill Owner Type:	Private	Year Annual Acceptance Rate Reported:	1994
Alternative Landfill Name:	Laidlaw LF	Design Capacity (tons):	
City:		Acres Currently Landfilled (acres):	
County:	Trimble	Average Depth (feet):	
State:	KY	Waste-in-Place (tons):	4,664,272
Year Open:	1986	1998 Waste-in-Place (tons):	3,789,721
Year Closed:	2030		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	1.39
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	Yes

C. LANDFILL GAS UTILIZATION

Current Utilization:			
Utilization System Status:	Unknown		
Utilization System Type:	Leachate Evaporation		
Utilization System Start Year:	1998		
Electric Utility Provider(s):			
Natural Gas Provider(s):			
Energy Purchaser(s):	TBD		
Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
Estimated Potential Capacity:	4		43
Current Capacity:			
Planned Capacity:			

Utilities in County: Kentucky Utilities Company; Louisville Gas & Electric Co; Shelby Rural Elec Coop Corp; Southeast

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		Current	
<i>Methane Reduction (tons/yr):</i>	8,021		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	168,437		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	33,939	215	24,154	220
<i>Fuel Oil:</i>	27,856	179	19,824	116
<i>Natural Gas:</i>	18,730	0	13,330	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Jim Tucker, Landfill Engineer	Jim Tucker, Landfill Engineer
Mailing Address:		PO Box 3
Phone Number:	502-743-5426	502-743-5426
Fax Number:		Cell: 502-931-4265

* *Italicized indicates values estimated by EPA.*

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	United Waste Systems, Inc	Annual Acceptance Rate (tons):	218,521
Landfill Owner Type:	Private	Year Annual Acceptance Rate Reported:	1994
Alternative Landfill Name:	Laurel County LF	Design Capacity (tons):	
City:		Acres Currently Landfilled (acres):	
County:	Laurel	Average Depth (feet):	
State:	KY	Waste-in-Place (tons):	2,870,686
Year Open:	1976	1998 Waste-in-Place (tons):	3,144,084
Year Closed:	2010		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	1.22
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:			
Utilization System Status:	Unknown		
Utilization System Type:	Unknown		
Utilization System Start Year:			
Electric Utility Provider(s):			
Natural Gas Provider(s):			
Energy Purchaser(s):			
Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
Estimated Potential Capacity:	4		38
Current Capacity:			
Planned Capacity:			

Utilities in County: Jackson County Rural E C C; Kentucky Utilities Company; South Kentucky Rural E C C; Southeaster

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		Current	
<i>Methane Reduction (tons/yr):</i>	7,066		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	148,388		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	29,993	190	21,279	194
<i>Fuel Oil:</i>	24,617	159	17,465	102
<i>Natural Gas:</i>	16,553	0	11,743	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Jeff McQueen, Landfill Manager	Jeff McQueen
Mailing Address:	PO Box 747	PO Box 747
Phone Number:	606-864-4391	606-864-4391
Fax Number:		

* *Italicized indicates values estimated by EPA.*



A. GENERAL LANDFILL INFORMATION

Landfill Owner:	McCracken County	Annual Acceptance Rate (tons):	77,575
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1994
Alternative Landfill Name:		Design Capacity (tons):	
City:		Acres Currently Landfilled (acres):	30
County:	McCracken	Average Depth (feet):	
State:	KY	Waste-in-Place (tons):	1,718,758
Year Open:	1972	1998 Waste-in-Place (tons):	1,718,758
Year Closed:	1996		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.86
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:			
Utilization System Status:	Potential		
Utilization System Type:	Unknown		
Utilization System Start Year:			
Electric Utility Provider(s):			
Natural Gas Provider(s):			
Energy Purchaser(s):			
Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
Estimated Potential Capacity:	3		27
Current Capacity:			
Planned Capacity:			

Utilities in County: Jackson Purchase El Coop Corp; Kentucky Utilities Company; Paducah Power System; Southeastern

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>		4,958		0
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>		104,124		0
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	21,311	135	14,931	136
<i>Fuel Oil:</i>	17,491	113	12,255	71
<i>Natural Gas:</i>	11,761	0	8,240	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Pat Stevenson	Julius Tyler
Mailing Address:	3700 Coleman Road	
Phone Number:	502-442-9163	502-441-6807
Fax Number:		

* *Italicized indicates values estimated by EPA.*

A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Ohio County	Annual Acceptance Rate (tons):	209,386
Landfill Owner Type:		Year Annual Acceptance Rate Reported:	1994
Alternative Landfill Name:	Addington Environmental/Ohio County LF	Design Capacity (tons):	
City:		Acres Currently Landfilled (acres):	
County:	Ohio	Average Depth (feet):	
State:	KY	Waste-in-Place (tons):	785,803
Year Open:	1990	1998 Waste-in-Place (tons):	1,010,318
Year Closed:	2000		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.68
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status:	Unknown
Utilization System Type:	Unknown
Utilization System Start Year:	
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	2	21
Current Capacity:		
Planned Capacity:		

Utilities in County: Green River Electric Corp; Kentucky Utilities Company; Meade County Rural E C C; Southeastern P

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>		3,911		0
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>		82,125		0
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	16,575	105	11,777	107
<i>Fuel Oil:</i>	13,604	88	9,666	56
<i>Natural Gas:</i>	9,147	0	6,499	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:		Lacy Blackburn
Mailing Address:	P.O. Box 146	
Phone Number:	502-298-4400	502-298-7501
Fax Number:		

* *Italicized indicates values estimated by EPA.*

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Waste Management of Kentucky, Inc.	Annual Acceptance Rate (tons):	1,368,458
Landfill Owner Type:	Private	Year Annual Acceptance Rate Reported:	1994
Alternative Landfill Name:	Outer Loop Landfill	Design Capacity (tons):	
City:	Louisville	Acres Currently Landfilled (acres):	200
County:	Jefferson	Average Depth (feet):	150
State:	KY	Waste-in-Place (tons):	35,046,257
Year Open:	1970	1998 Waste-in-Place (tons):	37,642,276
Year Closed:	2024		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	10.05
LFG Collection System Status:	Operational
Current LFG Collected (mmscf/d):	3.0
Collection and Treatment System Required Under NSPS/EG:	Yes

C. LANDFILL GAS UTILIZATION

Current Utilization:			
Utilization System Status:	Construction		
Utilization System Type:	Medium Btu		
Utilization System Start Year:	1999		
Electric Utility Provider(s):			
Natural Gas Provider(s):			
Energy Purchaser(s):	General Electric, Texas Gas Transmission, P		
Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
Estimated Potential Capacity:	31		314
Current Capacity:			
Planned Capacity:			63

Utilities in County: Louisville Gas & Electric Co; Salt River El Coop Corp; Southeastern Power Admin

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	58,082		11,563	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	1,219,716		242,827	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	247,833	1,567	174,905	1,592
<i>Fuel Oil:</i>	203,410	1,309	143,554	837
<i>Natural Gas:</i>	136,776	0	96,528	1

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Tony Barbush, Manager, LFG Recovery	Tony Barbush, Manager, LFG Recovery
Mailing Address:	2673 Outer Loop	2673 Outer Loop
Phone Number:	502-966-0272	502-966-0272
Fax Number:		

* *Italicized indicates values estimated by EPA.*

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Pulaski Grading, Inc.	Annual Acceptance Rate (tons):	54,041
Landfill Owner Type:	Private	Year Annual Acceptance Rate Reported:	1994
Alternative Landfill Name:		Design Capacity (tons):	
City:		Acres Currently Landfilled (acres):	
County:	Pulaski	Average Depth (feet):	
State:	KY	Waste-in-Place (tons):	1,255,031
Year Open:	1980	1998 Waste-in-Place (tons):	1,402,681
Year Closed:	2012		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.78
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:			
Utilization System Status:	Unknown		
Utilization System Type:	Unknown		
Utilization System Start Year:			
Electric Utility Provider(s):			
Natural Gas Provider(s):			
Energy Purchaser(s):			
Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
Estimated Potential Capacity:	2		24
Current Capacity:			
Planned Capacity:			

Utilities in County: Kentucky Utilities Company; South Kentucky Rural E C C; Southeastern Power Admin

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	4,491		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	94,309		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	18,943	120	13,524	123
<i>Fuel Oil:</i>	15,547	100	11,100	65
<i>Natural Gas:</i>	10,454	0	7,464	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:		Jim Milliner
Mailing Address:	1308 Dixie Bend Road	
Phone Number:	606-561-6899	606-651-6253
Fax Number:		

* *Italicized indicates values estimated by EPA.*

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Rumpke Waste, Inc.	Annual Acceptance Rate (tons):	133,262
Landfill Owner Type:	Private	Year Annual Acceptance Rate Reported:	1994
Alternative Landfill Name:		Design Capacity (tons):	
City:	Jeffersonville	Acres Currently Landfilled (acres):	
County:	Montgomery	Average Depth (feet):	
State:	KY	Waste-in-Place (tons):	2,009,464
Year Open:	1973	1998 Waste-in-Place (tons):	2,176,920
Year Closed:	2012		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.97
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:			
Utilization System Status:	Unknown		
Utilization System Type:	Unknown		
Utilization System Start Year:			
Electric Utility Provider(s):			
Natural Gas Provider(s):			
Energy Purchaser(s):			
Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
Estimated Potential Capacity:	3		31
Current Capacity:			
Planned Capacity:			

Utilities in County: Clark Rural Electric Coop Corp; Kentucky Utilities Company; Southeastern Power Admin

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	5,636		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	118,352		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	23,678	150	16,972	154
<i>Fuel Oil:</i>	19,434	125	13,930	81
<i>Natural Gas:</i>	13,068	0	9,366	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Dan Duffy, Landfill Engineer	Bill Chlebowy, Landfill Engineer
Mailing Address:	10795 Hughes Road	
Phone Number:	513-825-4839	606-296-0777
Fax Number:		

* *Italicized indicates values estimated by EPA.*

A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Southern Sanitation Company, Inc.	Annual Acceptance Rate (tons):	81,409
Landfill Owner Type:	Private	Year Annual Acceptance Rate Reported:	1994
Alternative Landfill Name:	Southern Waste Services LF	Design Capacity (tons):	
City:		Acres Currently Landfilled (acres):	52
County:	Logan	Average Depth (feet):	210
State:	KY	Waste-in-Place (tons):	1,923,156
Year Open:	1973	1998 Waste-in-Place (tons):	2,083,419
Year Closed:	2015		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.95
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status:	Potential
Utilization System Type:	Unknown
Utilization System Start Year:	
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	3	30
Current Capacity:		
Planned Capacity:		

Utilities in County: Pennyriple Rural Elec Coop Corp; Russellville Elec Plant Board; Tennessee Valley Authority; Warren

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	5,498		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	115,450		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	23,678	150	16,555	151
<i>Fuel Oil:</i>	19,434	125	13,588	79
<i>Natural Gas:</i>	13,068	0	9,137	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Carl Cressler	Carl Cressler
Mailing Address:	P.O. Box 537	P.O. Box 537 478 Coopertown Road
Phone Number:	502-726-9016	502-726-9016
Fax Number:		

* *Italicized indicates values estimated by EPA.*

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Waste Management of Kentucky, Inc.	Annual Acceptance Rate (tons):	208,848
Landfill Owner Type:	Private	Year Annual Acceptance Rate Reported:	1991
Alternative Landfill Name:		Design Capacity (tons):	
City:		Acres Currently Landfilled (acres):	
County:	Fayette	Average Depth (feet):	
State:	KY	Waste-in-Place (tons):	5,691,119
Year Open:	1976	1998 Waste-in-Place (tons):	6,233,131
Year Closed:	1999		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	2.01
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:			
Utilization System Status:	Unknown		
Utilization System Type:	Unknown		
Utilization System Start Year:			
Electric Utility Provider(s):			
Natural Gas Provider(s):			
Energy Purchaser(s):			
Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
Estimated Potential Capacity:	6		63
Current Capacity:			
Planned Capacity:			

Utilities in County: Blue Grass Rural El Coop Corp; Clark Rural Electric Coop Corp; Kentucky Utilities Company; South

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	11,634		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	244,316		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	49,724	314	35,035	319
<i>Fuel Oil:</i>	40,812	263	28,755	168
<i>Natural Gas:</i>	27,442	0	19,335	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Bruce Crouch, Landfill Manager	Charlie Denim
Mailing Address:	200 East Main Street	1460 Newtown Pike
Phone Number:	606-726-5552	606-231-0069
Fax Number:		606-281-6457

* *Italicized indicates values estimated by EPA.*

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Williams Sanitation Service	Annual Acceptance Rate (tons):	171,600
Landfill Owner Type:	Private	Year Annual Acceptance Rate Reported:	1998
Alternative Landfill Name:		Design Capacity (tons):	
City:		Acres Currently Landfilled (acres):	
County:	Spencer	Average Depth (feet):	
State:	KY	Waste-in-Place (tons):	1,295,153
Year Open:	1973	1998 Waste-in-Place (tons):	1,464,086
Year Closed:	2022		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.79
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status:	Unknown
Utilization System Type:	Unknown
Utilization System Start Year:	
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	3	25
Current Capacity:		
Planned Capacity:		

Utilities in County: Fox Creek Rural Elec Coop Corp; Kentucky Utilities Company; Salt River El Coop Corp; Southeast

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>		4,582		0
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>		96,216		0
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	19,732	125	13,797	126
<i>Fuel Oil:</i>	16,195	104	11,324	66
<i>Natural Gas:</i>	10,890	0	7,615	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Tom Pike, Landfill Manager	Tom Pike, Landfill Manager
Mailing Address:	4876 King's Church Road	4876 King's Church Road
Phone Number:	502-239-2117	502-239-2117
Fax Number:		

* *Italicized indicates values estimated by EPA.*

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