# Attachments

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Kentucky Department for Environmental Protection Division of Waste Management Solid Waste Branch 300 Sower Blvd – Frankfort KY 40601 (502) 564-6716

FOR OFFICIAL USE ONLY. DO NOT WRITE IN THIS SPACE

Application for a Special Waste Landfill Permit							
1. Type of Action	New	Modification- If modification, complete item 2					
2. Facility Identification	Agency Intere	it Number:					
3. Permit Number (if applicable):							
4. Fee Submitted	Amount: \$	Check or I	Money Order #:		Exempt (Publicly	y Owned Facility):	
5. If an existing special waste landfill, designate the type of modification application: If not applicable, check here □							
☐ Vertical expansion ☐ Cl	osure	☐Groundwater Mo	nitoring	☐ Horizo	ontal expansion	Other, Describe:	
		6. Applicant	Information				
Applicant Name:		Mailing Address:					
City:			State:		Zip Code	<b>::</b>	
Contact Person:			Title:				
Email Address:		Phone Number: (	) -		Cell Nu	ımber: ( ) -	
		7. Preparer Informa	ation (if applica	ıble)			
Preparer Name:			Mailing Addre	ess:			
City:	St	ate:			Zip Code:		
Contact Person:			Title:				
Email Address:	Email Address: Phone Number: (		-		Cell Number: (	) -	
		8. Facility I	nformation				
Facility Name:			Address:				
City:	State:		Zip Code:		County:		
<b>Attachment 1.</b> Provide a copy of the approved closure of the facility.	deed or option to	the property and a cop	y of the lease sh	nowing a fiv	ve (5) year right of	re-entry following cabinet	
<b>Attachment 2.</b> Provide a description endangered or threatened species.	of the facility's in	mpact on transportation	n routes, prime a	gricultural	lands, water resour	ces, historic properties, and	
Attachment 3. List any variances ap	olied for. Include	a cite for each regulation	on for which the	applicant p	proposes to vary.		
<b>Attachment 4.</b> Provide a notarized st	atement from app	plicable jurisdictions th	at the proposed	facility con	nplies with all local	planning and zoning laws.	
Attachment 5. Provide a description of assistance provided by the local fire district.							
	9. Op	oerator Information (I	f different fron	n applican	t)		
Operator Name:			Mailing Addı	ress:			
City:	S	tate:			Zip Code:		
Contact Person:			Title:				
Email Address:	Ph	none Number: ( )	-		Cell Number: (	) -	
		10. Property Ow	ner Informatio	n			
Owner's Name:	:		Address:				
City:	State:		Zip Code:				
Phone Number: ( ) -							

11. Ownership Information					
Legal Organizational Structure of Applicant					
☐ Proprietorship	☐ Joint \	/enture		General Partnership	
☐ Corporation	☐ Limited Liability Corporation ☐ Limited Partnership				
Government agency	Other.	Describe:			
Registered with Secretary of State?	☐ Yes		1 🗆	No	
Registered process agent:	i	Address:			
City:		State:		Zip Code:	
Email Address:			Phone Number: (	)	
Attachment 6. List information concerning owners of	mineral rig	hts. Include name of p	roperty owner, address, o	city, state, zip code, and phone number.	
Attachment 7. Provide a list of all adjacent property of	wners. Inclu	ude name, address, cit	y, state, zip code, and pho	one number.	
<b>Attachment 8.</b> For the applicant and each person mee KRS 224.40-330(1) and (3). The Cabinet has developed				nance Information form as required by	
Provide the		rational and Permit I mation in the table bel	nformation ow and in Attachment 9	A	
Estimated Average Daily Fill Rate			Tons/day	Cubic Yards/day	
Estimated Maximum Daily Fill Rate			Tons/day	Cubic Yards/day	
Estimated Disposal Rate			Cubic Yards/day		
Estimated Site Life		Years	***		
Total Site Volume			Cubic Yards	***	
Number of Acres to be Filled		Acres	***		
Number of Acres to be Permitted			Acres	***	
<b>Attachment 10.</b> For industrial facilities, provide the for If not applicable, check here □	ollowing:				
a. List the major U.S. Department of Commerce Stand	ard Industri	al Codes (SIC).			
b. Provide the description of the raw materials used for	r production	and the generation pro	ocess for each waste.	j	
c. Describe the physical, chemical, and, if applicable, b	iological ch	aracteristics of the wa	ste. Also, provide a TCL	P analysis of the wastes	
Attachment 11. Provide a list of all equipment that is	to be used a	t the facility.			
	1	3. Siting Information	n		
Directions to the site using roads or highways from a co	ommonly kr	nown landmark:			
The latitude and longitude at the center of the landfill:	Latitude:		Longitude:		
Nearest Community:					
Nearest Public Road Intersection: and					
Nearest Named Stream:					
Attachment 12. Provide an original, current USGS 7.5-minute topographic map showing the existing or proposed waste boundaries and property boundaries. Also, show the location of the following features located within a one-mile radius of the waste boundaries: Check all that apply or mark the item as not applicable (N/A).					
a. All surface water intake and discharge structures N	N/A	b. All in	jection wells N/A		
c. All waste management, storage, processing, or dispo	sal facilities	N/A			
d. All wells, springs, ephemeral, intermittent, and perennial streams, other surface water bodies, and drinking water wells N/A					
e. Airports N/A f.	Fault areas	N/A	g. Sink	s or Sinkholes N/A	

Attachment 13. Provide a site map that contains the following items clearly marked and labeled at a scale of one (1) inch equals four hundred (400) feet. Check all that apply or mark the item as not applicable (N/A).									
a. Property lines N/A	<b>b.</b> Pe	ermit area N/	A	c. 1	Fill area	a N/A			
d. Mine works N/A	e. Un-plugge	ed wells N/A		f. Adjacent p	roperty	owners	N/A		
g. Wetlands N/A	<b>h.</b> 100-year f	loodplain N/.	A	i. Known arc	haeolog	gical sites	N/A		
j. Gas, sewer and water lines N/A									
k. Surrounding residences (within 150	00 feet of the	waste boundary	y) N/A						
I. Critical habitats of federally protec	ted threatene	ed & endangere	d species	s N/A					
m. Cultural or historic resources listed, or eligible for listing on the National Register of Historic Places N/A									
Attachments 14, 15, & 16. Provide respectively.	the published	l information to	confirm	the presence or abs	ence of	f archaeolo	gical sites, c	critic	al habitats and wetlands,
Attachment 17. Include a general co	ounty highwa	y map publishe	d by the	Kentucky Transpor	tation C	Cabinet sho	owing the loc	catio	on of the site.
			14. D	esign Plans					
Attachment 18. Submit 3 copies of the drawings. Number the drawings as		wing the design	of the s	ite. Refer to the deta	iled ad	ministrativ	e instruction	ns fo	or the engineering
1. A drawing of the entire site on one	sheet showing	ng:	Curr	ent site conditions		Site de	velopment p	lan i	ncluding buffer zones
Location of monitoring points for:	Su	ırface Water	G	roundwater	N	/lethane		Ba	selines
2. Site plans drawn to 1 inch = 100 f	eet (or Cabin	et-approved alt	ernative	scale) showing:					
Development Plan		Location of m	nonitorin	g points		Baselin	e or off-set	base	line
3. Cross-Sections at:	100 Foot in	ntervals	Vert	ical scale of 1 inch =	= 10 fee	et	Horizontal s	scale	of 1 inch = 100 feet
4. Drawing of the profile along each	Drawing of the profile along each baseline.  5. Proper site development including the sequence of filling (i.e. un phases, working areas).				(i.e. units,		6. Construction details		
7. Include typical details for the following features of the cell:			Final Cover Lifts			Liners	(if s	specified)	
			15.	Narrative					
1. Will waste be placed within 250 fe	et of an inter	mittent or perer	nnial stre	eam?	es 🔲	No			
<b>Attachment 19.</b> If you answered yes 5:031.	to question 1	1, enclose the 40	01 Water	quality certification	n that h	as been iss	ued pursuan	nt to	401 KAR 5:029 through
Provide the information requested i	n 401 KAR	45:130 by chec	king the	e appropriate box.	Is the v	waste disp	osal area w	ithir	1:
2. The zone of collapse of deep-mine critical angle of draw of such working		within the	☐ Yes	s 🗌 No					
3. 250 feet of a karst terrain feature?			☐ Yes ☐ No						
4. 100 feet of the property line?			☐ Yes ☐ No						
5. 250 feet of a residence?			☐ Yes ☐ No						
6. 50 feet of a gas, sewer, or water lin	ie?		☐ Yes ☐ No						
7. 250 feet of an unplugged well (other than monitoring)?			☐ Yes	s 🔲 No					
8. Is the depth to the seasonal high gr greater?	oundwater ta	able to the botto	m of the	liner system four fe	eet or		Yes No		
9. Does the leachate analysis indicate	n excess	of drinking water st	andards	s? 🔲 Y	es No				
10. If you answered yes to question 23, will the depth from the b high groundwater table exceed 5 feet?  If not applicable check here: □				pottom of the waste to the seasonal			es □ No		
11. Is this proposed site located in the	e 100 year flo	oodplain?					Yes □ No		
<b>Attachment 20.</b> If you answered yes floodplains.	to question 1	11, enclose a rep	port desc	ribing how you will	l meet S	Section 2 o	f 401 KAR	30:0	31 concerning

12. Is any proposed waste cell within 200 feet of a fault that has had displacement in Holocene times?	
Attachment 21. Enclose a description of the surface water controls which meet the Environment Performance Standards as required	
Attachment 22. Describe the potential for gas emissions and odors based on the waste characteristics and the proposed landfill design. If a describe the proposed explosive gas monitoring program.	pplicable,
Attachment 23. Describe the procedures to control access by the public.	
Attachment 24. Describe how the applicant will comply with the working face requirements.	
16. Owner and Landfill Information	
Complete the information requested below for placement on the landfill sign at the landfill entrance:	
Owner Name: Landfill Name:	
Name of Operator: Hours to receive waste: to	
Days to Receive Waste: to Permit Number:	
Emergency Telephone Number: (	
17. Liner Design	
Attachment 25. If applicable, submit the design specifications for the bottom liner.	
<b>Attachment 26.</b> Enclose the risk analysis study showing how the proposed bottom liner design will meet the environmental performance st 401 KAR 30:031, specific attention should be given to Sections 5 and 6 of KAR 45:160 concerning protection of groundwater.	andards of
18. Geologic and Hydrogeologic Information	
Attachment 27. Provide a description of the type, texture, thickness, and range in thickness of unconsolidated materials within the disposal	area.
Attachment 28. Provide the following information for the regional bedrock geologic structure:	
Strike and dip of bedrock:	
Attitude of faults:	
Location of faults relative to the site:	
Has fault displacement occurred in Holocene times? Yes: No:	
Attitude of folds:	
Location of fold relative to site:	
Jointing trends:	
Attachment 29. Provide the following information for the site specific geologic structure:	
Strike and dip of bedrock:	,
Attitude of faults:	
Location of faults relative to the site:	
Has fault displacement occurred in Holocene times? Yes: No:	
Attitude of folds:	
Location of fold relative to the site:	
Joint attitudes:	
Joint spacing:	
Attachment 30. Provide a description of the influence of fracture zones on the infiltration and movement of water and groundwater.	
Attachment 31. Provide a minimum of two (2) geologic cross sections drawn with vertical exaggeration using published data, bedrock out core boring information. This drawing must adequately illustrate the geology of the site and include the season high groundwater table and table tabl	
Attachment 32. List any extractable coal seams or other minerals of economic value beneath the site.	
Attachment 33. List any active or inactive deep mines located within 1,500 feet of the waste boundaries.	
Attachment 34. Provide all rock core log data.	

Attachment 35, Provide a map of geologic features and rock coring locations for the waste disposal site, including area 1,500 feet beyond the waste boundary at a scale of one (1) inch equals four hundred (400) feet. Include the following information:										
Geologic units	Sinkhole	es		Springs E		Bar scale		Date		
Rock outcrop occurrences		Surface dep	ressions		Water w	vithdra	wal wells	/alwells Inje		on wells
North arrow		Surface con	tours		Locatio	n of ro	ock corings	gs Legend to		d to include symbols
Attachment 36. Provide a hydrogeologic characterization of the site. This characterization must include data, procedures, calculations and the following information:										
A description of the hydrogeologic characteristic			cs of the: Uppermost aquifer Ge		Geo	Geologic units hydraulically connected to the upperm		ted to the uppermost aquifer		
Field Test Data for: Hydrau			Hydraulio	Hydraulic conductivity		Storage coefficient				
Transmissivity			Groundw	Groundwater hydraulic gradient			Groundwater hydraulic velocity			
Based on: Multipl			Multiple	fultiple well aquifer tests		Piezometer test evaluation		luation		
Core Evaluation	Tracer studies (karst areas) Other Cabinet-approved method					oved method				
Characterization of karst conditions for: Diffuse flow condi			flow conditions	ı	Discrete flow conditions		nditions	All sp	rings and upgradient wells	
Attachment 37. List all spring	gs and upg	gradient wel	ls.							

Attachment 38. Show a soils inventory consisting of a description of the total volume and source of borrow material available, the total estimated volume and source of required daily cover, interim cover, long-term cover, final cover, and low permeability soils. Also, show the soils as determined by the approved site investigation: location, depth, thickness, classification of soils for engineering purposes, particle size distribution, atterburg limits, optimum moisture, permeability, and recoverable volume in compacted cubic yards for each soil classification and permeability.

Attachment 39. Provide a soils inventory map at a scale of one (1) inch equals 400 feet, depicting the distribution of the soils that is keyed to a list of the soils by engineering classification. The approximate volume and depth of each type of soil shall be recorded on the map.

## 19. Construction Quality Control Plan

Attachment 40. Describe the Construction Quality Control (CQC) Plan as required by 45:110 Section 2.

### 20. Recordkeeping and Reporting

Attachment 41. Enclose the landfill recordkeeping and reporting system. The applicant may use the record keeping forms provided by the Cabinet or submit a different form for review by the Cabinet.

#### 21. Surface Water, Groundwater, and Corrective Action

Attachment 42. Submit a Surface Water Monitoring Plan as required by 401 KAR 45:110 and 401 KAR 45:160.. At a minimum, the plan must include:

The proposed locations of the monitoring points shown on the plans.

A description of sampling protocol and analytical methods to be used

A written description of how the monitoring point locations ensure that sampling will characterize the quality of water unaffected by the landfill, as well as determining if water leaving the landfill as surface drainage is contaminated with leachate.

Documentation that the applicant currently holds or has applied for a K.P.D.E.S. permit for all structures to be used to control storm water fun off and all point source discharges.

A monitoring schedule and list of analytical parameters

A sample form for reporting results of the analyses to the Division.

Provide the information requested in Attachment 42A concerning location of the monitoring points.

Attachment 43. Submit a Groundwater Monitoring Plan that meets the requirements of 401 KAR 45:110 and 405 KAR 45:160. At a minimum that plan must provide the following information:

A list and description of the specific aquifer(s) proposed for monitoring.

The number, location, and depth of proposed monitoring points. Show the locations of the monitoring points on the site plans.

Provide a brief discussion of the groundwater quality that currently exists based on the Groundwater Quality Characterization required in 401 KAR 45:160.

Provide a Groundwater Sampling and Analysis Plan which describes the procedures and techniques designed to accurately measure groundwater quality upgradient and downgradient of the waste disposal area. Include a discussion regarding the chain of custody, as well as field and lab quality assurance and quality control.

Provide a monitoring schedule and list of analytical parameters in accordance with 401 KAR 45:160 Section 8.

Provide monitoring well construction specifications v	which meet the requ	irements of 401	KAR 45:160 Se	ction 3 and 401 KAR 6:350.	
Is the proposed solid waste disposal site located in ka If yes, the groundwater monitoring plan must include monitoring locations.			ature and exten	t of karst drainage beneath the site	and proposed
Provide the information requested in <b>Attachment 43</b>	A concerning propo	osed well location	ns and depth.		
	. Closure, Closure				
Attachment 44. Submit the specifications of the close					
Attachment 45. Applicants must enclose the risk and 401 KAR 03:031, especially Sections 4 and 5 concerns					
Attachment 46. Submit the closure plan narrative as	s required by 401 K	AR 45:110 Secti	on 5.		
Attachment 47. Submit the post-closure plan as requ	uired by 401 KAR	45:110 Section 5			
	23.	Public Notice			
Attachment 48. Public notices are required for a new notices are found in Attachments 48A and 48B. Cor Cabinet may publish the notices.					
	24. Per	mit Preparation	l		
Engineer Name:		Mailing A	.ddress:		
City:		State:		Zip Code:	
Company Affiliation:		-	KY P.E. Re	egistration Number:	
Email Address:	Phone N	Number: (	-	Cell Number: ( )	-
Geotechnical Engineer Name:		Mailing A	ddress:		
City:		State:		Zip Code:	
Company Affiliation:			KY P.E. Re	gistration Number:	
Email Address:	Phone N	Number: (		Cell Number: ( )	-
	<u> </u>				
Geologist Name:		Mailing A	.ddress:		
City:		State:	1	Zip Code:	
Company Affiliation:			KY P.G. R	egistration Number:	
Email Address:	Phone N	Number: (	-	Cell Number: ( )	-
	25. (	Certification			
"I certify under penalty of law that this document system designed to assure that qualified personnel persons directly responsible for gathering the infor- complete. I am aware that there are significant per such violations."	properly gather ar mation, the inform	nd evaluate the i ation submitted	information sul in, to the best	bmitted. Based on my inquiry of of my knowledge and belief, true	f the person or e, accurate and
Name (Print):					
Title/Position:		Date: /	/		
Subscribed and sworn to before me by:		i			
Notary public signature:					
My commission expires:	/ /				

1

Attachn	nent 9A: Anticipated Special Waste Sources	Characteristics, and Amounts	3
Source Facility Name and Location	Special Waste Description	Annual Quantity Received (Cubic Yards)	Annual Quantity Received (Tons)

Attachment 42A: Surface Water Monitoring Plan						
	Provide the information reques	sted below:				
Monitoring Station I.D.	Location Description	Latitude	Longitude			

		Attachment	: 43A: Groundwater Mo	nitoring Well Locatio	n and Depth		
		Prov	ide the information req	uested in the chart b	elow:		
Monitoring Station I.D.	Latitude	Longitude	Station Type Well or Spring	Aquifer	Elevation of Spring or Top of Well Casing	Depth of Well	Depth of Water

# Attachment 48A

#### **Public Notice**

Pursuant to Application Number
The Energy and Environment Cabinet, Division of Waste Management has received a special waste landfill permit application.
The permit applicant proposes to construct and operate a facility located at . The proposed facility may be accessed from by traveling .
This application, if approved, would allow the construction and operation of a landfill to accept the following types of wastes: from the following sources:
The name and address of the permit applicant is:
(Applicant name)
(Business address)
(City, State, ZIP)
(Contact person)
Witten comments, objections or requests for a public hearing must be filed with the Director of the Division of Waste Management at the address
below within 30 days of the date of this notice. Please reference Application Number on all correspondence.
Questions concerning the application process for this facility can be directed to the:

Kentucky Department for Environmental Protection Division of Waste Management Solid Waste Branch 300 Sower Boulevard, Second Floor Frankfort, KY 40601 (502) 564-6716

Publication of the notice is pursuant to KRS 224.40-310.

# **Attachment 48B**

### **Public Notice**

Pursuant to Permit Number
The Energy and Environment Cabinet, Division of Waste Management has determined the administrative portion of the permit application number to be complete on 20 (to be determined by the Cabinet).
The permit applicant proposes an expansion to the existing permit for the facility located in by traveling county. The proposed facility may be accessed from
This application, if approved, would allow the construction and operation of the expanded landfill to accept the following types of wastes: from the following sources:
The name and address of the permit applicant is:
(Applicant name)
(Business address)
(City, State, ZIP)
(Contact person)
Witten comments, objections or requests for a public hearing must be filed with the Director of the Division of Waste Management at the address
below within 30 days of the date of this notice. Please reference Application Number on all correspondence.
Questions concerning the application process for this facility can be directed to the:

Kentucky Department for Environmental Protection Division of Waste Management Solid Waste Branch 300 Sower Boulevard, Second Floor Frankfort, KY 40601 (502) 564-6716

Publication of the notice is pursuant to KRS 224.40-310.