Attachments

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5	Description of Assistance	
6	Owners of Mineral Rights	
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8	Key Personnel Past Performance	
9	Waste Information (Attachment 9A)	
10	Industrial Facilities	
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28	Regional Bedrock Geologic Structure	
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	fill Permit			OFFICIAL USE ONLY. DO WRITE IN THIS SPACE			
1. Type of Action	New				Modificatio	n- If modification, co	omplete item 2
2. Facility Identification	Agency I	nterest Numb	er:			,	1
3. Permit Number (if applica	ble):						
4. Fee Submitted		Amount: \$ Check or 1				Exempt (Publicly	Owned Facility):
5. If an existing special waste If not applicable, check here		e the type of	modification	application:			
Uertical expansion	Closure	Gr	oundwater M	onitoring	🗌 Horiz	ontal expansion	Other, Describe:
··			6. Applicant	Information	-		1
Applicant Name:		Mail	ing Address:				
City:		i		State:		Zip Code:	
Contact Person:				Title:			
Email Address:		Phor	ne Number: () -		Cell Nur	nber: () -
		7. Pre	parer Inform	ation (if applic	able)		
Preparer Name:				Mailing Addr	ess:		
City:		State:				Zip Code:	
Contact Person:				Title:			
Email Address:		Phone Nur	mber: ()	-		Cell Number: () -
			8. Facility	Information			
Facility Name:				Address:			
City:	State:			Zip Code: County:			
Attachment 1. Provide a copy approved closure of the facility		on to the proj	perty and a co	by of the lease s	howing a fi	ve (5) year right of r	e-entry following cabinet
Attachment 2. Provide a desc endangered or threatened speci		y's impact or	n transportatio	n routes, prime a	agricultural	lands, water resourc	es, historic properties, and
Attachment 3. List any variar	nces applied for. Inc	lude a cite fo	r each regulat	on for which the	e applicant	proposes to vary.	
Attachment 4. Provide a notarized statement from applicable jurisdictions that the proposed facility complies with all local planning and zoning laws.							
Attachment 5. Provide a description of assistance provided by the local fire district.							
9. Operator Information (If different from applicant)							
Operator Name:				Mailing Add	lress:		
City:		State:				Zip Code:	
Contact Person:			Title:				
Email Address:	Email Address: Phone Number: () - Cell Number: () -) -
		10.	Property Ov	vner Informatio	on		
Owner's Name:				Address:			
City:	State:			Zip Code:			
Phone Number: ()	-						

11. Ownership Information						
Legal Organizational Structure of Applicant						
Proprietorship	🗌 Joint V	Venture		General Partnership		
Corporation	Limite	d Liability Corporatio	n	Limited Partnership		
Government agency	Other.	Describe:				
Registered with Secretary of State?	🗌 Yes		1 🗌	No		
Registered process agent:		Address:				
City:		State:		Zip Code:		
Email Address:			Phone Number: ()		
Attachment 6. List information concerning owners of	f mineral rig	hts. Include name of p	property owner, address, o	city, state, zip code, and phone number.		
Attachment 7. Provide a list of all adjacent property of	owners. Incl	ude name, address, cit	y, state, zip code, and ph	one number.		
Attachment 8. For the applicant and each person mee KRS 224.40-330(1) and (3). The Cabinet has develope				nance Information form as required by		
Provide the		rational and Permit I mation in the table belo	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			Tons/day	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	***		
Attachment 10. For industrial facilities, provide the f If not applicable, check here \Box	ollowing:					
a. List the major U.S. Department of Commerce Stand	lard Industri	al Codes (SIC).				
b. Provide the description of the raw materials used fo	r production	and the generation pr	ocess for each waste.			
c. Describe the physical, chemical, and, if applicable, b	piological 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 c	commonly ki	nown landmark:				
The latitude and longitude at the center of the landfill: Latitude: Longitude:						
Nearest Community:						
Nearest Public Road Intersection: and and						
Nearest Named Stream:						
Attachment 12. Provide an original, current USGS 7.5 boundaries. Also, show the location of the following fitem as not applicable (N/A).						
a. All surface water intake and discharge structures	N/A	b. All in	jection wells N/A			
c. All waste management, storage, processing, or dispo	osal facilities	s N/A				
d. All wells, springs, ephemeral, intermittent, and perer	nnial stream	s, other surface water l	bodies, and drinking wat	er wells N/A		
e. Airports N/A f.	Fault areas	N/A	g. Sink	ks 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. Permit area N/A c. Fill area				ea N/A						
d. Mine works N/A	N/A e. Un-plugged wells N/A f. Adjacent property of			y owners	N/A					
g. Wetlands N/A	h. 100-year	r floodplain N	/A		i. Known arc	haeolo	ogical sites	s N/2	A	
j. Gas, sewer and water lines N/A	j. Gas, sewer and water lines N/A									
k. Surrounding residences (within 1:	500 feet of th	ne waste bounda	ry) l	N/A						
I. Critical habitats of federally prot	ected threate	ned & endanger	ed sp	ecies N/	A					
m. Cultural or historic resources list	ted, or eligib	le for listing on t	he N	ational Re	egister of Histo	ric Pla	aces N/A	A		
Attachments 14, 15, & 16. Provide respectively.	e the publish	ed information to	o con	nfirm the p	presence or abs	ence of	of archaeol	ogical	sites, crit	tical habitats and wetlands,
Attachment 17. Include a general of	county highv	vay map publish	ed by	y the Kent	ucky Transport	ation (Cabinet sh	lowing	the locat	tion of the site.
			1	4. Design	Plans					
Attachment 18. Submit 3 copies of drawings. Number the drawings as		nowing the desig	n of 1	the site. R	efer to the deta	iled ac	dministrati	ive ins	tructions	for the engineering
1. A drawing of the entire site on or	ne sheet show	ving:	0	Current si	te conditions		Site d	evelop	ment plai	n including buffer zones
Location of monitoring points for:		Surface Water		Ground	lwater	Ν	Methane		I	Baselines
2. Site plans drawn to 1 inch = 100	feet (or Cab	inet-approved al	lterna	ative scale) showing:					
Development Plan		Location of	moni	toring poi	nts		Baseli	ne or o	off-set ba	seline
3. Cross-Sections at:	100 Foot	intervals		Vertical so	cale of 1 inch =	= 10 fee	et	Horiz	zontal sca	ale of 1 inch = 100 feet
4. Drawing of the profile along each	h baseline.	5. Proper site phases, we			including the s	equend	ce of fillin	g (i.e.	units,	6. Construction details
7. Include typical details for the following	lowing featu	res of the cell:	Final Cover Lifts		3		Liners (i	if specified)		
				15. Narra	ative					
1. Will waste be placed within 250	feet of an int	ermittent or pere	ennia	l stream?	□ Ye	es 🗌	No			
Attachment 19. If you answered ye 5:031.	es to question	n 1, enclose the 4	401 V	Vater qual	ity certificatior	n that h	has been is	ssued p	oursuant t	to 401 KAR 5:029 through
Provide the information requested	l in 401 KA	R 45:130 by che	eckin	g the app	ropriate box.	Is the	waste dis	posal a	area with	hin:
2. The zone of collapse of deep-min critical angle of draw of such working		or within the		Yes 🗌	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 1	ine?		☐ Yes ☐ No							
7. 250 feet of an unplugged well (other than monitoring)?				Yes No						
8. Is the depth to the seasonal high groundwater table to the <u>bottom</u> of the liner system four feet or greater?										
9. Does the leachate analysis indicate the presence of any metal in excess of drinking water standards?										
10. If you answered yes to question 23, will the depth from the bottom of the waste to the seasonal high groundwater table exceed 5 feet? Yes No If not applicable check here: If not applicable check here:										
11. Is this proposed site located in t	he 100 year	floodplain?						Yes [🗌 No	
Attachment 20. If you answered ye floodplains.	es to question	11, enclose a re	eport	describing	g how you will	meet	Section 2	of 401	KAR 30	0:031 concerning

12. Is any proposed waste cell within 200 feet of a fa	ult that has had displacement in Holocene times?				
Attachment 21. Enclose a description of the surface	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 emiss describe the proposed explosive gas monitoring progr	ions and odors based on the waste characteristics and the proposed landfill design. If applicable, ram.				
Attachment 23. Describe the procedures to control a	Attachment 23. Describe the procedures to control access by the public.				
Attachment 24. Describe how the applicant will con	aply with the working face requirements.				
	16. Owner and Landfill Information				
Complete the information requested below for place	cement 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 spec	ifications for the bottom liner.				
Attachment 26. Enclose the risk analysis study show 401 KAR 30:031, specific attention should be given to	ving how the proposed bottom liner design will meet the environmental performance standards of o Sections 5 and 6 of KAR 45:160 concerning protection of groundwater.				
1	18. Geologic and Hydrogeologic Information				
Attachment 27. Provide a description of the type, tex	xture, thickness, and range in thickness of unconsolidated materials within the disposal area.				
Attachment 28. Provide the following information fo	r 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	or 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?	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	e of fracture zones on the infiltration and movement of water and groundwater.				
	ogic cross sections drawn with vertical exaggeration using published data, bedrock outcrops and rock ly illustrate the geology of the site and include the season high groundwater table and rock outcrops.				
Attachment 32. List any extractable coal seams or o	ther minerals of economic value beneath the site.				
Attachment 33. List any active or inactive deep min	es 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:									
Sinkho	kholes Springs			Bar scale			e		Date
	Surface dep	pressions	essions Water with		withdrawalwells		Inject	Injection wells	
	Surface con	ntours		Locatio	ocation of rock corings		Leger	nd 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 characteristics of			es of the: Uppermost aquifer			Geologic units hydraulically connected to the uppermost aquife			
		Hydraulic conductivity				Storage coefficient			
		Groundw	Groundwater hydraulic gradient			Groundwater hydraulic velocity			
Based on:			Multiple well aquifer tests				Piezometer test evaluation		
Core Evaluation 1			Tracer studies (karst areas)			Other Cabinet-a		net-appi	roved method
Characterization of karst conditions for: D			Diffuse flow conditions I		Discrete flow conditions		nditions	All sp	rings and upgradient wells
Attachment 37. List all springs and upgradient wells.									
	one (1) Sinkho drogeolc ologic c	one (1) inch equals Sinkholes Surface dep Surface cor Brogeologic character ologic characteristic	one (1) inch equals four hund Sinkholes Surface depressions Surface contours drogeologic characterization of t ologic characteristics of the: Hydraulid Groundw Multiple Tracer stu nditions for: Diffuse	Sinkholes Springs Sinkholes Springs Surface depressions Surface contours Brogeologic characterization of the site. This characteristics of the: Uppermost a ologic characteristics of the: Uppermost a Hydraulic conductivity Groundwater hydraulic g Multiple well aquifer tes Tracer studies (karst area nditions for: Diffuse flow conditions	Sinkholes Springs Surface depressions Water Surface contours Location Brogeologic characterization of the site. This characterization of the site. This characterization Uppermost aquifer Hydraulic conductivity Groundwater hydraulic gradient Multiple well aquifer tests Tracer studies (karst areas) nditions for: Diffuse flow conditions	Sinkholes Springs Sinkholes Springs Surface depressions Water withdra Surface contours Location of restriction of the site. This characterization not the site. This characterizaticharacterization not the site. This characterization	Sinkholes Springs Bar scale Surface depressions Water withdrawal wells Surface contours Location of rock coring: Brogeologic characterization of the site. This characterization must include ologic characteristics of the: Uppermost aquifer Groundwater hydraulic gradient Multiple well aquifer tests Tracer studies (karst areas) Inditions for: Diffuse flow conditions	one (1) inch equals four hundred (400) feet. Include the following information: Sinkholes Springs Bar scale Surface depressions Water withdrawal wells Location of rock corings Surface contours Location of rock corings Include data, proce ologic characterization of the site. This characterization must include data, proce Include data, proce ologic characteristics of the: Uppermost aquifer Geologic units hydraulically Hydraulic conductivity Storage coe Groundwater hydraulic gradient Groundwater hydraulic gradient Multiple well aquifer tests Piezometer Tracer studies (karst areas) Other Cabin nditions for: Diffuse flow conditions Discrete flow conditions	one (1) inch equals four hundred (400) feet. Include the following information:SinkholesSpringsBar scaleSurface depressionsWater withdrawal wellsInjectSurface contoursLocation of rock coringsLegerdrogeologic characterization of the site. This characterization must include data, procedures, cUppermost aquiferGeologic units hydraulically connectologic characteristics of the:Uppermost aquiferGeologic units hydraulically connectStorage coefficientologic characteristics of the:Uppermost aquiferGeologic units hydraulically connectologic characteristics of the:Uppermost aquiferGeologic units hydraulically connectologic characteristics of the:Uppermost aquiferGeologic units hydraulically connectologic characteristics of the:Uppermost aquiferStorage coefficientMultiple well aquifer testsPiezometer test eventMultiple well aquifer testsPiezometer test eventTracer studies (karst areas)Discrete flow conditionsAll sp

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 sar as determining if water leaving the landfill as surface drainage is contamin	npling will characterize the quality of water unaffected by the landfill, as well ated 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	n 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 which meet the requirements of 401 KAR 45:160 Section 3 and 401 KAR 6:350.

Is the proposed solid waste disposal site located in karst terrain? 🗌 Yes 📄 No If yes, the groundwater monitoring plan must include dye trace studies to determine the nature and extent of karst drainage beneath the site and proposed

monitoring locations.

Provide the information requested in Attachment 43A concerning proposed well locations and depth.

22. Closure, Closure Care and Performance Bond

Attachment 44. Submit the specifications of the closure cap as required by 45:110 Section 5 and 401 KAR 30:031.

Attachment 45. Applicants must enclose the risk analysis study showing how the proposed cap will meet the environmental performance standards of 401 KAR 03:031, especially Sections 4 and 5 concerning surface and groundwater. Address each of the factors listed in 401 KAR 45:110 Section 5.

Attachment 46. Submit the closure plan narrative as required by 401 KAR 45:110 Section 5.

Attachment 47. Submit the post-closure plan as required by 401 KAR 45:110 Section 5.

23. Public Notice

Attachment 48. Public notices are required for a new site or a significant expansion to an existing site in accordance with KRS 224.40-310. Draft notices are found in Attachments 48A and 48B. Complete the public notice forms; however, only those applicants notified by correspondence from the Cabinet may publish the notices.

24. Permit Preparation							
Engineer Name:	Mailing Add	ldress:					
City:	State:		Zip Code:				
Company Affiliation:			KY P.E. Registration Number:				
Email Address:	Email Address: Phone Number: (
Geotechnical Engineer Name:	Mailing Add	ddress:					
City:	State:	Zip Code:					
Company Affiliation:			KY P.E. Registrat	ion Number:			
Email Address:	Phone Nur	mber: ()	-	Cell Number: () -			
Geologist Name:	lress:						
City:	State:		Zip Code:				
Company Affiliation:		KY P.G. Registrat	ion Number:				
Email Address:	Phone Nu	mber: ()	-	Cell Number: () -			

25. Certification						
system designed to assure that qualified personnel p persons directly responsible for gathering the inform	properly gather an nation, the inform	ents were prepared under my direction or supervision in accordance with a nd evaluate the information submitted. Based on my inquiry of the person or ation submitted in, to the best of my knowledge and belief, true, accurate and ing false information, including the possibility of fine and imprisonment for				
Name (Print):		Signature:				
Title/Position:		Date: / /				
Subscribed and sworn to before me by:						
Notary public signature:						
My commission expires:						

.....

Attachment 9A: Anticipated Special Waste Sources; Characteristics, and Amounts						
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 requested below:							
Monitoring Station I.D.	Location Description	Latitude	Longitude					

Attachment 43A: Groundwater Monitoring Well Location and Depth Provide the information requested in the chart below:							

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 county. The proposed facility may be accessed from by traveling .

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.