

Knox County Department of Air Quality Management
 Non-Title V Permit Application
 APC-24 Form: Asphalt Plant Source Data
 (Please Type or Print)



Please fill out a form for each asphalt plant						
1. Business information:					Air Quality Use Only	
Business license name of corporation, company, individual owner, or governmental agency under which the application is submitted						
2. Emission unit name:					Emission Unit Number	
3. Operating schedule:						
Hours per day	Days per week	Weeks per year	Days per year			
4. Percentage of yearly operation that occurs during the following quarters: (total must equal 100%)						
Dec-Jan-Feb	Mar-April-May	June-July-Aug	Sept-Oct-Nov			
5. Asphalt plant diagram:						
The applicant must attach a diagram of the asphalt plant showing material stockpile areas, bins, feeders, conveyors, rotary dryers, elevators, screens, hot bins, mixers, silos, product discharges, control equipment, and pertinent process equipment.						
6. Dryer data:						
Dryer manufacturer		Dryer model number		Dryer date manufacturer		
Type of Process	Normal batch time	Normal batches per day	Maximum batches per day	Operating rate (tons/hr)		
<input type="checkbox"/> Batch				Average	Maximum	
<input type="checkbox"/> Continuous						
7. Fuel data:						
Primary fuel type (specify)			Standby fuel type (specify)			
Fuels Used	Annual Usage	Hour Usage		% Sulfur	% Ash	BTU Value of Fuel
		Design	Average			
Natural Gas	10 ⁶ ft ³	ft ³	ft ³			1,020 BTU/ft ³
#2 Fuel Oil	10 ³ gal	gal	gal			
#4 Fuel Oil	10 ³ gal	gal	gal			
#5 Fuel Oil	10 ³ gal	gal	gal			
#6 Fuel Oil	10 ³ gal	gal	gal			
Liquid Propane	10 ³ gal	gal	gal			91,500 BTU/gal
Other (Specify type & units)						

8. Exhaust stack data:				
Height above grade (ft)	Diameter (ft)	Temperature (°F)	Distance to nearest property line (ft)	
Data at exit conditions:	Flow (actual ft ³ /min)	Velocity (ft/sec)	Moisture (grains/ft ³)	Moisture (percent)
Data at standard conditions:	Flow (dry standard ft ³ /min)	Velocity (ft/sec)	Moisture (grains/ft ³)	Moisture (percent)

9. Air contaminants:						
Emission estimates for each air contaminant emitted from this point should be based on stack sampling results or engineering calculations. Calculations should be attached on a separate sheet.						
Air Contaminant	Actual Emissions			Emission Estimate Method Code*	Control Devices*	Control Efficiency (%)
	Emissions (lbs/hr)		Concentration			
	Average	Maximum				
Particulate matter			gr/dscf**			
Sulfur dioxide (SO ₂)			PPM			
Carbon monoxide (CO)			PPM			
Volatile organic compounds (VOC)			PPM			
Nitrogen oxides (NO _x)			PPM			
Hydrogen fluoride (HF)						
Hydrogen chloride (HCl)						
Greenhouse gases (CO ₂ equivalents)						
Other (specify)						
Other (specify)						

* Refer to APC-1 Form: General Information for tables of estimation method and control device codes

** Exit gas particulate matter concentration units: grains/dry standard ft³ (70°F)

10. Compliance demonstration and monitoring/recording devices:	
Description of proposed monitoring and recordkeeping to assure compliance with emission limits. Include operating parameters of source and/or control device being monitored (opacity, flow rate, pressure drop, etc.).	
Check all attached monitoring and recording devices:	<input type="checkbox"/> No monitor <input type="checkbox"/> Opacity monitor <input type="checkbox"/> Pressure drop gauge <input type="checkbox"/> Electronic data logger <input type="checkbox"/> Strip chart <input type="checkbox"/> Other (describe):

