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Facility Name: **Valley Asphalt Corporation**

Application Number: **14-4616**

Date: **January 21, 1999**

**GENERAL PERMIT CONDITIONS**

**TERMINATION OF PERMIT TO INSTALL**

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**NOTICE OF INSPECTION**

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

**CONSTRUCTION OF NEW SOURCES**

The proposed source(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of Ohio Administrative Code (OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as

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an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet applicable standards.

### **PERMIT TO INSTALL FEE**

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

### **PUBLIC DISCLOSURE**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC Rule 3745-49-03.

### **APPLICABILITY**

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

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### **BEST AVAILABLE TECHNOLOGY**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

### **PERMIT TO OPERATE APPLICATION**

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

### **SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION**

This facility is permitted to operate each source described by this permit to install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws and regulations.

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Valley Asphalt Corporation** located in **Hamilton** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

F001

Ohio  
EPA  
Source  
Number

Source  
Identification  
Description

P907

325 TPH Portable  
drum mix asphalt  
plant Rohe No. 2

P907  
Cont'd

F002

F002  
Cont'd

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
Aggregate storage piles				
Unpaved roadways and parking areas				

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
	<p style="text-align: center;"><u>BAT Determination</u></p>	<p>Operation and maintenance of a fabric filter and cyclone, production limitations, maintenance of aggregate in a moist condition, visible emission limitations and emission limitations.</p>	<p>dust suppressant, speed limit, visible emissions limitation</p>	
		<p>Maintain material in moist condition, visible emissions limitation, minimize drop height of front loader</p>		
		<p>Use of water as</p>		

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
			3745-17-08 (B)	Permit Allowable Mass Emissions and/or Control/Usage Requirements
	Applicable Federal & OAC Rules		*The emission limitation established by this rule is less stringent than those established by OAC rule	Permit Allowable Mass Emissions and/or Control/Usage Requirements
3745-15-07		40 CFR Part 60 Subpart I	3745-31-05 (BAT)	See General Terms
3745-17-07 (A) and (B)		*The emission limitation established by this rule is less stringent than those established by OAC rule	3745-31-05 (BAT)	See Term and Condition A.1.
3745-17-08 (B)		3745-31-05 (BAT) .		See Term and Condition A.2.
3745-17-11*				Less stringent.
3745-31-05		3745-31-05		4.6 pounds PM/hour (Stack) 8.13 pounds PM/hour (Fugitive)
		3745-15-07		9.75 TPY PM total
		3745-17-07 (B) *		4.1 pounds PM <sub>10</sub> /hour (stack and fugitive) 3.12 TPY PM <sub>10</sub>
		3745-17-08 (B)		(stack and fugitive) 18.2 pounds SO <sub>2</sub> /hour
		3745-31-05		14.0 TPY SO <sub>2</sub> 11.7 pounds CO/hour
		3745-17-07 (B) *		9.0 TPY CO 24.4 pounds

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
NO <sub>x</sub> /hour	Less stringent			
18.75				
TPY NO <sub>x</sub>				
22.4	See Term B.5.			
pounds				
OC/hour				
17.25	30.88 TPY PM			
TPY OC	13.90 TPY			
	PM10			
0.04	See A.5.			
gr/dscf	Less stringent			
PM				
	See Term A.6			

0.81  
 TPY PM  
 0.25  
 TPY  
 PM10  
 See  
 Term  
 A.4.

See  
 General  
 Terms

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SUMMARY  
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
Organic Compound	17.25
PM	41.44
SO <sub>2</sub>	14.0
NO <sub>x</sub>	18.75
CO	9.0
PM <sub>10</sub>	17.27

**NSPS REQUIREMENTS**

The following sources are subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
P907	325 TPH Drum Mix Asphalt Plant Rohe No. 2	I

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and

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- d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency  
DAPC - Permit Management Unit  
P.O. Box 163669  
Columbus, OH 43216-3669

and **Hamilton County Dept. of Env. Services**  
**1632 Central Parkway**  
**Cincinnati, OH 45210**

#### **REPORTING REQUIREMENTS**

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Hamilton County Dept. of Env. Services, 1632 Central Parkway, Cincinnati, OH 45210.**

#### **WASTE DISPOSAL**

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

#### **MAINTENANCE OF EQUIPMENT**

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

#### **MALFUNCTION/ABATEMENT**

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Hamilton County Dept. of Env. Services, 1632 Central Parkway, Cincinnati, OH 45210.**

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Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

#### **AIR POLLUTION NUISANCES PROHIBITED**

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

#### **CONSTRUCTION COMPLIANCE CERTIFICATION**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

#### **ADDITIONAL SPECIAL TERMS AND CONDITIONS**

##### **A. Applicable Emission Limitations and/or Control Requirements**

1. The following visible particulate emission limitations shall not be exceeded for emissions unit P907:
  - a. the visible particulate emissions from the fabric filter stack shall not exceed ten percent (10%) opacity, as a six-minute average; and,
  - b. visible particulate emissions from any fugitive dust emissions point shall not exceed twenty percent (20%) opacity as a three-minute average.
2. The permittee shall maintain aggregate in a moist condition so as to minimize or eliminate at all times visible emissions of fugitive dust.
3. The maximum particulate emissions from the fabric filter stack shall not exceed 0.04 grain per dry standard cubic foot and 4.6 pounds per hour.
4. There shall be no visible particulate emissions from the aggregate storage piles except for a period of time not to exceed one minute during any sixty-minute observation period.

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5. There shall be no visible particulate emissions from any unpaved roadways except for a period of time not to exceed three minutes during any sixty-minute observation period.
6. The permittee shall apply dust suppressants to the unpaved roadways and parking areas to minimize or eliminate, at all times, visible emissions of fugitive dust generated by vehicular traffic. Water or other suitable dust suppressant shall be used, and the following equipment shall be used for the periodic applications: on-site water tank and spray system. The dust suppressant shall be applied to the unpaved surfaces, at a minimum, every day. This term and condition shall be waived during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust.
7. Any material carried off of the permittee's property and deposited onto public streets by vehicular traffic or by erosion by water, etc., shall be promptly removed and disposed of properly to minimize or prevent resuspension.
8. A maximum speed limit of ten miles per hour shall be posted and enforced on the property.
9. Open bodied vehicles transporting materials likely to become airborne shall be covered at all times.
10. During the unloading onto or removal from the sand and aggregate storage piles, the drop height of the front-end loader shall be minimized in order to minimize or eliminate visible emissions of fugitive dust.

**B. Operational Restrictions**

1. The maximum asphaltic concrete production from this plant shall not exceed 325 tons per hour.
2. The maximum annual production rate for this emissions unit shall not exceed 500,000 tons per year, based on a rolling 12-month summation of the production rates.

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To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the following production levels:

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<u>Month</u>	<u>Production Limit (tons)</u>
1-2	250,000
1-3	250,000
1-4	250,000
1-5	250,000
1-6	250,000
1-7	291,667
1-8	333,333
1-9	375,000
1-10	416,667
1-11	458,333
1-12	500,000

After the first 12 months of operation following the issuance of this permit, compliance with the annual production limitation shall be based on a rolling, 12-month summation of the production rates.

3. The sulfur content for the no. 2 fuel oil shall not exceed 0.3 percent.
4. To ensure the baghouse is operated according to the manufacturer's specifications and to maintain compliance with the allowable particulate emission rate, a pressure drop across the baghouse of not less than 2 inches of water or not greater than 6 inches of water shall be maintained at all times.
5. All sand and aggregate storage piles shall contain sufficient moisture so as to minimize or eliminate visible emissions caused by wind erosion.

**C. Monitoring and Recordkeeping Requirements**

1. The permittee shall properly operate and maintain a monitoring device capable of accurately measuring the pressure drop across the fabric filter while the emissions unit is operation. The monitoring equipment shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall check the pressure drop once a day and maintain daily records of the pressure drop readings.

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2. The permittee shall maintain records of the production rate for each month and the updated rolling, 12-month total of the tons of asphalt product produced. Also, during the first twelve months of operation following the issuance of this permit, the permittee shall record the cumulative production rate for each calendar month.
3. For each shipment of No. 2 fuel oil received for burning in this emissions unit, the permittee shall maintain a record of the analyses for sulfur content.
4. The permittee shall maintain records which include the following information for the unpaved roadways and parking areas:
  - a. the date dust suppressants were applied to the unpaved surfaces;
  - b. the portions of unpaved surfaces that were treated with dust suppressants;
  - c. the application rate of water and any chemical additives (gallons of each per square yard); and,
  - d. the name of the equipment operator responsible for the application of the dust suppressants.
5. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

**D. Reporting Requirements**

1. The permittee shall submit a "Notice of Intent to Relocate a Portable or Mobile Source" form 30 days prior to any planned relocation of this emissions unit, in accordance with OAC rule 3745-31-03(A)(1)(p). Approval of the planned relocation must be obtained

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from the Hamilton County Department of Environmental Services prior to the relocation.

2. The permittee shall submit pressure drop excursion reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month production rate limitation and, for the first 12 calendar months of operation following issuance of this permit, all exceedances of the maximum allowable cumulative production levels.
4. The permittee shall submit annual reports which specify the total PM, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub>, OC and CO emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
5. The permittee shall submit required reports in the following manner:
  - a. reports of any required monitoring and/or recordkeeping information shall be submitted to the Hamilton County Dept. of Env. Services; and,
  - b. except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and any corrective actions or preventative measures which have been or will be taken, shall be submitted to the Hamilton County Dept. of Env. Services. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 30, April

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30, July 30, and October 30 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06).

**E. Compliance Methods/Testing Requirements**

1. The permittee shall calculate the CO, NO<sub>x</sub>, SO<sub>2</sub> and OC emission rates using emission factors from AP-42 Table 11.1-8.
2. The permittee shall calculate the PM emission rates using emission factors from AP-42 Table 11.1-5 and Reasonable Available Control Measures (RACM), Table 2.22-1 for fugitive emission calculations.
3. The permittee shall calculate the PM<sub>10</sub> emission rates by multiplying the PM emissions rate by the percent PM<sub>10</sub> taken from AP-42 Table 11.1-6.
4. Compliance with OAC rule 3745-17-07(A)(1) shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).
5. Compliance with OAC rule 3745-17-07(B)(1) shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(3).
6. Compliance with the fugitive visible emissions limitations in terms and conditions A.4 and A.5 shall be determined in accordance with OAC rule 3745-17-03(B)(4).
7. The permittee shall conduct, or have conducted, emissions testing for this emissions unit in accordance with the following requirements:
  - a. the emission testing shall be conducted within 150 plant operating days of the effective date of this permit;
  - b. the emission testing shall be conducted to demonstrate compliance with the particulate and volatile organic compound emission limitation;
  - c. test method 5,25 or 25A shall be employed to demonstrate compliance;
  - d. the test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity,

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unless otherwise specified or approved by the Hamilton County Department of Environmental Services; and,

- e. not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Hamilton County Dept. of Env. Services. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s), and the person(s) who will be conducting the test(s).

Failure to submit such notification for review and approval prior to the test(s) may result in the Hamilton County Dept. of Env. Services refusal to accept the results of the emission test(s).

Personnel from the Hamilton County Dept. of Env. Services shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Hamilton County Dept. of Env. Service within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Hamilton County Dept. of Env. Service.

- 8. Compliance with the particulate emissions limitations for emissions units F001 shall be determined using emission factors found in Ohio EPA reference document RACM.
- 9. Compliance with the allowable emissions limitation for the plant roadways shall be demonstrated by

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calculations based on emission factors found in AP-42 section 13.2.2.2, times (1 - control efficiency for wet suppression).

**F. Miscellaneous Requirements**

1. None.