



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
HAMILTON COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 14-05840

Fac ID: 1431984206

DATE: 8/22/2006

Valley Asphalt Corporation
Daniel Crago
11641 Mosteller Road
Cincinnati, OH 45241

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

HCDES



**Permit To Install
Terms and Conditions**

**Issue Date: 8/22/2006
Effective Date: 8/22/2006**

FINAL PERMIT TO INSTALL 14-05840

Application Number: 14-05840
Facility ID: 1431984206
Permit Fee: **\$2050**
Name of Facility: Valley Asphalt Corporation
Person to Contact: Daniel Crago
Address: 11641 Mosteller Road
Cincinnati, OH 45241

Location of proposed air contaminant source(s) [emissions unit(s)]:
**5073 Kilby Road
Cleveland, Ohio**

Description of proposed emissions unit(s):
400 ton per hour portable drum mix asphalt plant, roadways and parking areas, aggregate storage piles, four 20,000 gallon fixed roof storage tanks.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

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 appropriate Ohio EPA District Office or local air agency.
- 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 (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. 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 31, April 30, July 31, and October 31 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.)

3. Records Retention Requirements

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.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

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the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. 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.

9. Construction of New Sources(s)

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The proposed emissions unit(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 cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(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 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 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 the requirements of this permit or cannot meet applicable standards.

10. 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.

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. 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.

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13. Source Operation and Operating Permit Requirements 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, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

14. 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.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
PM	28.27
PM-10	15.80
SOx	23.20
NOx	22.00
CO	53.01

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VOC

19.42

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property,
and/or Equipment

Applicable Rules/Requirements

F001 - unpaved roadways and parking areas

OAC rule 3745-31-05(A)(3)

OAC rule 3745-17-07 (B)

OAC rule 3745-17-08(B)

Applicable Emissions
Limitations/Control Measures

Particulate emissions (PE) shall not exceed 6.17 tons per year (TPY).

Particulate matter emissions 10 microns and less in diameter (PM10) shall not exceed 1.93 TPY.

There shall be no visible PE except for 3 minutes during any 60-minute period.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-08(B).

The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (See Sections A.2.a through A.2.f.)

2. Additional Terms and Conditions

- 2.a** The unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

unpaved roadways and parking areas:

all

- 2.b** The permittee shall employ best available control measures on all unpaved roadways for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways by watering and surface improvements at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for an unpaved roadway that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.d** The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.e** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.f** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.

B. Operational Restrictions

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Emissions Unit ID: F001

None

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the paved and unpaved roadways in accordance with the following frequencies:

unpaved roadways and parking areas:

all

minimum inspection frequency:

daily

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.d shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emissions limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):

Emissions Limitations:

6.17 tons PE/yr for unpaved roadways and parking areas; and
1.93 tons PM10/yr for unpaved roadways and parking areas.

Applicable Compliance Method:

Particulate emissions shall be calculated and compliance determined using the following equations.

$$\text{tons PE/PM10/yr} = (A) \times (B) \times (1 - C) \times 1 \text{ ton}/2000 \text{ lbs}$$

where,

A = lb PE/PM10 per vehicle mile traveled, calculated from AP-42, Section 13.2.2 (December, 2003).

B = total annual vehicle miles traveled, for unpaved roadways and parking areas.

C = control efficiency (0.75 for unpaved roadways and parking areas).

Emissions Limitation:

No visible PE except for three minutes during any 60-minute period from unpaved roadways and parking areas.

Applicable Compliance Method:

If required, compliance with the visible PE limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

F. Miscellaneous Requirements

None

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
F002 - load-in and load-out of storage piles, and wind erosion from storage piles	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-08(B)
	OAC rule 3745-17-07(B)(6)	

Applicable Emissions
Limitations/Control Measures

Particulate emissions (PE) shall not exceed 8.46 tons per year (TPY.)

Particulate matter emissions 10 microns and less in diameter (PM10) shall not exceed 4.23 TPY.

No visible particulate emissions, except for a total of one minute, during any 60 minute observation period.

Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see terms and conditions A.2.b - A.2.d)

See term and condition B.1.

The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a** The storage piles that are covered by this permit and subject to the above-mentioned requirements are listed below:
- All
- 2.b** The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to maintain minimal drop heights for the stackers and front-loaders and utilize wet suppression at sufficient treatment frequencies in order to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c** The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee shall maintain the material's moisture content in order to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d** The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.e** Compliance with the emissions and opacity limitations and the annual production limitation in term and condition B.1, and implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

- 1. The maximum aggregate material throughput for this emissions unit shall not exceed 800,000 tons per year.

C. Monitoring and/or Recordkeeping Requirements

- 1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum load-in inspection frequency</u>
all	daily

- 2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum load-out inspection frequency</u>
all	daily

- 3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum wind erosion inspection frequency</u>
all	daily

- 4. No inspection shall be necessary for wind erosion from the surface of a storage pile

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when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
6. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 6.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

7. The permittee shall maintain monthly records of the amount of sand and gravel throughput in this emissions unit.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify any of the following occurrences:

- a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to Hamilton County Department of Environmental Services that identify any exceedances of the throughput limit in term and condition B.1 as well as the corrective actions that were taken to achieve compliance. If no exceedances occurred, then the permittee shall state so in the report. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the emissions limitation(s) in term and condition A.1 shall be determined in accordance with the following method(s):

Emissions Limitation:

No visible particulate emissions, except for a total of one minute, during any 60 minute observation period.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources.")

2. Emissions Limitation:

8.46 tons PE/yr; 4.23 tons PM10/yr

Applicable Compliance Method:

Emissions shall be calculated and compliance determined by using the following equations:

$$\begin{aligned} \text{tons PE/yr} &= [(A) * (C) * (D) * 0.0005] + [(B) * (C) * (D) * 0.0005] + [(E) * (G) * (D)] \\ \text{tons PM10/yr} &= [(H) * (C) * (D) * 0.0005] + [(I) * (C) * (D) * 0.0005] + [(F) * (G) * (D)] \end{aligned}$$

where,

- A = PM (particulate matter) emissions factor for storage pile load-in, pounds per ton of material handled, calculated from AP-42, Section 13.2.4, (January, 1995).
- B = PM emissions factor for storage pile load-out, pounds per ton of material handled, calculated from AP-42, Section 13.2.4, (January, 1995).
- C = Total annual tons material handled
- D = Total control efficiency of 50 percent, expressed as a decimal, from wet suppression.
- E = Annual PM emissions from wind erosion, tons, calculated from AP-42, Section 13.2.5 (January, 1995).
- F = Annual PM10 emissions from wind erosion, tons, calculated from AP-42, Section

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13.2.5 (January, 1995).

G = Number of storage piles.

H = PM10 emissions factor for storage pile load-in, pounds per ton of material handled, calculated from AP-42, Section 13.2.4, (January, 1995).

I = PM10 emissions factor for storage pile load-out, pounds per ton of material handled, calculated from AP-42, Section 13.2.4, (January, 1995).

3. Compliance with the annual throughput restriction in term and condition B.1 shall be determined by the record keeping requirements in term and condition C.7.

F. Miscellaneous Requirements

None

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
P901 - 400 tons per hour portable drum mix asphalt plant	OAC rule 3745-31-05(A)(3)

40 CFR Part 60, Subpart I

OAC rule 3745-31-05(C)
Synthetic Minor to Avoid Title V
Permit Requirements and the
Prevention of Significant
Deterioration Regulation

Applicable Emissions
Limitations/Control Measures

OAC rule 3745-17-07(A)(1)

When burning natural gas, No. 2 fuel oil or used oil in the drum dryer burner:

OAC rule 3745-17-11(B)

Particulate emissions (PE) shall not exceed 13.2 lbs/hr and 0.03 grain per dry standard cubic foot of exhaust gas (gr/dscf).

OAC rule 3745-17-07(B)

Particulate matter emissions 10 microns and less in diameter (PM10) shall not exceed 9.2 lbs/hr.

OAC rule 3745-17-08(B)

Volatile organic compound (VOC) emissions shall not exceed 12.8 lbs/hr.

OAC rule 3745-18-06(E)

Carbon monoxide (CO) emissions shall not exceed 52.0 lbs/hr.

When using natural gas in the drum dryer burner:

OAC rule 3745-21-08(B)

Nitrogen oxides (NOx) emissions shall not exceed 10.4 lbs/hr.

OAC rule 3745-23-06(B)

Sulfur dioxide (SO2) emissions shall not exceed 1.36 lbs/hr.

When using No. 2 fuel oil or used oil in the drum dryer burner:

NOx emissions shall not exceed 22.0 lbs/hr.

Valley**PTI A****Issued: 8/22/2006**Emissions Unit ID: **P901**

SO₂ emissions shall not exceed 23.2 lbs/hr.

PE/PM₁₀ from plant load-out shall not exceed 0.21 lb/hr.

VOC emissions from plant load-out shall not exceed 1.66 lbs/hr.

CO emissions from plant load-out shall not exceed 0.54 lb/hr.

PE/PM₁₀ from silo filling shall not exceed 0.23 lb/hr.

VOC emissions from silo filling shall not exceed 4.88 lbs/hr.

CO emissions from silo filling shall not exceed 0.47 lb/hr.

See terms A.2.a, A.2.b, A.2.d, A.2.e, B.1 through B.5.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart I, OAC rule 3745-31-05(C), OAC rule 3745-17-07(B), OAC rule 3745-21-08(B) and OAC rule 3745-23-06(B).

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant

to OAC rule 3745-31-05(A)(3).

Allowable emissions from this emissions unit shall not exceed the following based on rolling, 12-month summation:

PE shall not exceed 13.64 TPY.

Particulate emissions 10 microns and less (PM₁₀) shall not exceed 9.64 TPY.

CO emissions shall not exceed 53.01 TPY.

NO_x emissions shall not exceed 22.00 TPY.

SO₂ emissions shall not exceed 23.20 TPY.

VOC emissions shall not exceed 19.34 TPY.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

See term A.2.c

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

See term A.2.f.

See term A.2.g

2. Additional Terms and Conditions

- 2.a All recycled, used oil burned in this emissions unit shall meet the following specifications:

<u>Contaminant/Property</u>	<u>Allowable Specifications</u>
arsenic	5 ppm, maximum
cadmium	2 ppm, maximum
chromium	10 ppm, maximum
lead	100 ppm, maximum
PCB's	10 ppm, maximum*
total halogens	4000 ppm maximum**
mercury	1 ppm, maximum
flash point	100°F, minimum
heat content	135,000 Btu/gallon, minimum
sulfur content	0.5%, maximum

Some or all of these used oil specifications exceed the Resource Conservation & Recovery Act Standards of 40 CFR Part 266.40 and OAC rule 3745-58-50, thereby, making the used oil off-specification.

*If the permittee is burning used oil with any quantifiable level (2 ppm) of PCB's, then the permittee is subject to the notification requirements of 40 CFR 279.62.

**Used oil containing more than 1000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under 40 CFR Part 266.40(c) and OAC rule 3745-279. Therefore, the permittee may receive and burn used oil exceeding 1000 ppm of total halogens (but less than 4000 ppm, maximum) only if the supplier ["marketer" in 40 Part CFR 266.43(a)] has demonstrated to the Ohio EPA's Division of Solid and Hazardous Waste Management that the used oil does not contain any hazardous waste.

- 2.b Visible particulate emissions from any stack associated with emissions unit P901 shall not exceed 10 percent opacity, as a six-minute average.
- 2.c Visible particulate emissions from any fugitive dust emissions point associated with emissions unit P901 shall not exceed 20 percent opacity, as a three-minute average.
- 2.d The drop height of the front end loader bucket shall be minimized to the extent

possible in order to minimize or eliminate visible emissions of fugitive dust from the cold feed bins and recycled material (RAP) bin.

- 2.e** The aggregate loaded into the storage bins shall have a moisture content sufficient to minimize or eliminate the visible emissions of fugitive dust from the elevator and the transfer point to the dryer.
- 2.f** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. This rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Until the U.S. EPA approves the revision to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.g** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-05697.

On February 15, 2005, OAC rule 3745-23-06 was rescinded; therefore, this rule is no longer part of the State regulations. This rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Until the U.S. EPA approves the revision to OAC rule 3745-23-06, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.h** The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.
- 2.i** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the rolling, 12-month emissions limitations, visible emissions

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limitations, production limitation and the use of a fabric filter to control emissions from the dryer.

- 2.j The hourly emissions limitations outlined for PE, PM10, CO, NOx, SO2 and VOC are based upon the emissions unit's potential to emit. Therefore, no hourly records are required to demonstrate compliance with these limitations.

B. Operational Restrictions

1. To ensure the fabric filter is operated according to the manufacturer's specifications and to maintain compliance with the allowable particulate emission rate, the pressure drop across the fabric filter shall be maintained within the range of 2.0 to 5.0 inches of water while the emissions unit is in operation.
2. The Director or any authorized representative of the Director may require or may conduct periodic, detailed chemical analyses through an independent laboratory of any used oil shipment received by this facility, of any used oil stored at this facility, or of any used oil sampled at the process employing the used oil as fuel, or of any storage tanks at this facility. Additionally, this facility shall provide a plan for documenting that the used oil does not contain any hazardous waste as specified under 40 CFR Parts 261 and 279.

The facility shall notify the USEPA and the Ohio EPA that the used oil being burned exceeds used oil specifications. Before this facility accepts the first shipment of off-specification used oil from a marketer, this facility must provide the marketer a one-time written and signed notice certifying that:

- a. the facility has notified USEPA of its used oil management activities and the notice included the location and description of those activities; and
- b. the facility will burn the used oil only in an industrial furnace or boiler identified in accordance with 40 CFR Part 279.

A copy of each certification notice that this facility sends to a marketer must be kept on file for a minimum of 5 years from the date it last received off-specification used oil from that marketer. The facility shall also submit a copy of each certification notice to the appropriate Ohio EPA District Office.

3. The maximum annual asphalt production rate for emissions unit P901 shall not exceed 800,000 tons per year based upon a rolling, 12-month summation of the production rates.

To ensure enforceability during the first 12 months of operation, the permittee shall not exceed the production levels specified in the following table:

Months	Maximum Allowable Cumulative Asphalt Production
1	200,000
1-2	400,000
1-3	600,000
1-4	800,000
1-5	800,000
1-6	800,000
1-7	800,000
1-8	800,000
1-9	800,000
1-10	800,000
1-11	800,000
1-12	800,000

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

4. The permittee may substitute reclaimed asphalt pavement (RAP) in the raw material feed mix in amounts not to exceed 50 percent of all aggregate materials.
5. All number 2 and used oil burned in this emissions unit shall have a sulfur content equal to or less than 0.5%, by weight.
6. The permittee may not receive or burn any used oil which does not meet the specifications listed in this permit without first obtaining a permit to install that authorizes the burning of such used oil.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the fabric filter while the emissions unit is in 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 record the pressure drop across the fabric filter on a once per shift basis.
2. The permittee shall receive a chemical analysis with each shipment of used oil from the supplier. The analysis shall identify the name and address of the supplier, the

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supplier's USEPA identification number, and the following information:

- a. the date of shipment or delivery;
- b. the quantity of used oil received;
- c. the Btu value of the used oil, in Btu/gallon;
- d. the flash point of the used oil in degrees F;
- e. the arsenic content, in ppm;
- f. the cadmium content, in ppm;
- g. the chromium content, in ppm;
- h. the lead content, in ppm;
- i. the PCB content, in ppm;
- j. the total halogen content, in ppm;
- k. the mercury content, in ppm; and
- l. the sulfur content (%).

Each analysis shall be kept in a readily accessible location for at least 5 years and shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon verbal or written request. The Director or any authorized representative of the Director may require or may conduct periodic, detailed chemical analyses through an independent laboratory of any used oil shipment received by this facility, of any used oil stored at this facility, or of any used oil sampled at the dryer.

3. The permittee shall maintain monthly records of the following information for emissions unit P901:
 - a. the total asphalt production, in tons for each month;
 - b. the rolling, 12-month summation of asphalt production calculated by adding the current month's asphalt production to the asphalt production for the preceding eleven calendar months;

- c. the maximum percentage RAP used for any mix; and
 - d. the rolling, 12-month summation of PE, PM10, SO₂, NO_x, VOC and CO emissions limitations calculated by adding the current month's emissions to the emissions for the preceding eleven calendar months.
4. For each shipment of fuel oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.
 5. The permit to install for this emissions unit was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied to this emissions unit for each toxic pollutant, using data from the permit to install application, and modeling was performed for the toxic pollutant(s) emitted at over a ton per year using the SCREEN 3.0 model or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the use of the SCREEN 3.0 (or other approved) model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as required in Engineering Guide #70. The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: formaldehyde

TLV (ug/m³): 221

Maximum Hourly Emission Rate (lbs/hr): 1.24

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 6

MAGLC (ug/m³): 147

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a compound or chemical with a lower

Threshold Limit Value (TLV) than the lowest TLV previously modeled, as documented in the most current version of the American Conference of Governmental Industrial Hygienists' (ACGIH's) handbook entitled "TLVs and BEIs" ("Threshold Limit Values for Chemical Substances and Physical Agents, Biological Exposure Indices");

- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) meet(s) the definition of a "modification" under other provisions of the rule, then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall furnish the Administrator written notification as follows:

A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice.

2. The permittee shall submit quarterly deviation (excursion) reports to the Hamilton County Department of Environmental Services which identify each daily record in which the pressure drop across the baghouse did not comply with the allowable range specified in term B.1. The deviation report shall include a copy of such record.

If no deviations occurred during the reporting period, the permittee shall state so in the report. The permittee shall submit the reports by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters (October through December, January through March, April through June and July through September, respectively).

3. The permittee shall notify the USEPA and the Ohio EPA if any of the used oil exceeds the used oil specifications found in OAC rule 3745-279-11 and/or term A.2.a. If the permittee is burning used oil which exceeds the specifications found in OAC rule 3745-279-11, the permittee is subject to that rule and must comply with all provisions of that rule. The required notification shall be submitted within 30 days of the date in which the exceedance occurred.
4. The permittee shall submit quarterly deviation (excursion) reports to the Hamilton County Department of Environmental Services which identify all exceedances of the rolling, 12 month asphalt production limitation in term B.3.

If no deviations occurred during the reporting period, the permittee shall state so in the report. The permittee shall submit the reports by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters (October through December, January through March, April through June and July through September, respectively).

5. The permittee shall submit deviation (excursion) reports that identify all exceedances of the RAP content limit in term B.4.

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If no deviations occurred during the reporting period, the permittee shall state so in the report. The permittee shall submit the reports by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters (October through December, January through March, April through June and July through September, respectively).

6. The permittee shall submit quarterly deviation reports that identify all exceedances of the sulfur content limit in term B.5.

If no deviations occurred during the reporting period, the permittee shall state so in the report. The permittee shall submit the reports by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters (October through December, January through March, April through June and July through September, respectively).

7. Pursuant to OAC rule 3745-31-03(A)(1)(p), the permittee of a portable source may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing certain criteria are met. The portable source shall meet one of the two following scenarios in order to qualify for this PTI exemption for the new location:
 - a. The following determinations have been documented, pursuant to OAC rule 3745-31-03(A)(1)(p)(i):
 - i. the portable source is equipped with the best available technology for such portable source;
 - ii. the portable source is operating pursuant to a currently effective permit to install, permit to operate (PTO), or registration status;
 - iii. the applicant has provided proper notice of the intent to relocate the portable source to the (1.) Ohio EPA District Office or local air agency responsible for the permit(s) for the source and (2.) the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site within a minimum of 30 days prior to the scheduled relocation; and
 - iv. in the judgement of the Ohio EPA District Office or local air agency having jurisdiction over the new site, the proposed site is acceptable under OAC rule 3745-15-07.
 - b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable source may relocate within the State of Ohio without first obtaining a

PTI, providing the following criteria of OAC rule 3745-31-05(E) are met:

- i. the portable source permittee possesses an Ohio EPA PTI, PTO or registration status;
- ii. the portable source is equipped with best available technology;
- iii. the portable source owner has identified the proposed site to Ohio EPA;
- iv. Ohio EPA has determined that the portable source, at the proposed site, will have an acceptable environmental impact;
- v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
- vi. the owner of the proposed site has provided the portable source owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable source to this proposed site; and
- vii. the portable source owner has provided Ohio EPA with 15 days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

In order for the permitting Ohio EPA District Office or local air agency and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee of the portable source must file a " Notice of Intent to Relocate" within the specified time frame (30 or 15 days), prior to the relocation of the portable source with the Ohio EPA District Office or local air agency responsible for the permits for the source and the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site. Upon receipt of the notice, the Ohio EPA District Office or local air agency responsible for the permits for the portable source, and/or appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the portable source may result in fines and civil penalties.

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Pursuant to OAC rule 3745-31-05(F), the Director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

8. The permittee shall submit quarterly deviation (excursion) reports to the Hamilton County Department of Environmental Services that identify all exceedances of the rolling 12-month total PE, PM10, SO2, NOx, VOC and CO emissions limitations.

If no deviations occurred during the reporting period, the permittee shall state so in the report. The permittee shall submit the reports by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters (October through December, January through March, April through June and July through September, respectively).

9. 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
 - 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 1049
 Columbus, Ohio 43216-1049

and

Hamilton County Department of Environmental Services
 250 William Howard Taft Road
 Cincinnati, Ohio 45219

E. Testing Requirements

1. Compliance with the emissions limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitations

The PE shall not exceed 13.2 lbs/hr.

The PE shall not exceed 0.03 grain particulate matter/dscf.

The particulate emissions 10 microns and less (PM10) shall not exceed 9.2 lbs/hr.

The VOC emissions shall not exceed 12.8 lbs/hr.

The CO emissions shall not exceed 52.0 lbs/hr.

The NOx emissions shall not exceed 10.4 lbs/hr (natural gas) or 22.0 lbs/hr (No. 2 or used oil).

The SO2 emissions shall not exceed 1.36 lbs/hr (natural gas) or 23.2 lbs/hr (No. 2 or used oil).

Applicable Compliance Methods

The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- a. the emission testing shall be conducted within 90 days after start-up of this emissions unit;
- b. the emission testing shall be conducted to demonstrate compliance with the allowable PE, CO, NOx, SO2 and VOC emissions rates;
- c. the following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for PE emissions, Method 5; for CO emissions, Method 10, for NOx emissions, Method 7; for SO2 emissions, Method 6; for VOC emissions, Method 25. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA or Hamilton County Department of Environmental Services; and
- d. the test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA or Hamilton County Department of Environmental Services;

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 Department of Environmental

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) of the test(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 Department of Environmental Services refusal to accept the results of the emission test(s).

Personnel from the Hamilton County Department of Environmental 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 Department of Environmental Services 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 Department of Environmental Services.

Emissions Limitations

The PE from plant load-out shall not exceed 0.21 lb/hr.

The VOC emissions from plant load-out shall not exceed 1.66 lbs/hr.

The CO emissions from plant load-out shall not exceed 0.54 lb/hr.

Applicable Compliance Method

Compliance with the plant load-out emissions limitations shall be demonstrated by applying the emissions factors from AP-42, Fifth Edition, Table 11.1-14, 3/2004 in the following equations for each pollutant:

- a. actual asphalt production rate (tons asphalt/hr) x AP-42 emissions factor (lb pollutant/ton asphalt) = lb pollutant/hr; and
- b. actual asphalt production rate (tons asphalt/yr) x AP-42 emissions factor (lb pollutant/ton asphalt) x 1 ton/2000 lbs = TPY pollutant

where: PE emissions factor is $0.000181 + 0.00141(-V)e^{((0.0251)(T+460)-20.43)}$
 VOC emissions factor is $0.0172(-V)e^{((0.0251)(T+460)-20.43)}$

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CO emissions factor is $0.0058(-V)e^{((0.0251)(T+460)-20.43)}$; and

V = site-specific asphalt volatility (percent loss-on-heating) or default value of -0.5

T = site-specific asphalt mix temperature, °F or default value of 325 °F.

Emissions Limitations

The PE from silo filling shall not exceed 0.23 lb/hr.

The VOC emissions from silo filling shall not exceed 4.88 lbs/hr.

The CO emissions from silo filling shall not exceed 0.47 lb/hr.

Applicable Compliance Method

Compliance with the silo filling emissions limitations shall be demonstrated by applying the emissions factors from AP-42, Fifth Edition, Table 11.1-14, 3/2004 in the following equations for each pollutant:

- a. actual asphalt production rate (tons asphalt/hr) x AP-42 emissions factor (lb pollutant/ton asphalt) = lb pollutant/hr; and
- b. actual asphalt production rate (tons asphalt/yr) x AP-42 emissions factor (lb pollutant/ton asphalt) x 1 ton/2000 lbs = TPY pollutant

where: PE emissions factor is $0.000332 + 0.00105(-V)e^{((0.0251)(T+460)-20.43)}$
 VOC emissions factor is $0.0504(-V)e^{((0.0251)(T+460)-20.43)}$
 CO emissions factor is $0.00488(-V)e^{((0.0251)(T+460)-20.43)}$; and

V = site-specific asphalt volatility (percent loss-on-heating) or default value of -0.5

T = site-specific asphalt mix temperature, °F or default value of 325 °F.

Emissions Limitations

Allowable emissions shall not exceed the following based on rolling, 12-month summations:

The PE shall not exceed 13.64 TPY.

The particulate emissions 10 microns and less (PM10) shall not exceed 9.64 TPY.

The CO emissions shall not exceed 53.01 TPY.

The NOx emissions shall not exceed 22.00 TPY.

The SO₂ emissions shall not exceed 23.20 TPY.
The VOC emissions shall not exceed 19.34 TPY.

Applicable Compliance Method

Compliance with the rolling, 12-month summations shall be demonstrated by a summation using the following equations:

actual asphalt production using any fuel type in the drum dryer burner (tons asphalt/year, rolling, 12-month summation) x pollutant emissions factor (lb pollutant/ton asphalt) x 1 ton/2000 lbs = TPY, rolling, 12 month summation

where: PE emissions factor is 0.033 lb/ton, based on AP-42, Fifth Edition, Table 11.1-3, 3/2004
PM₁₀ emissions factor is 0.023 lb/ton, based on AP-42, Fifth Edition, Table 11.1-3, 3/2004
CO emissions factor is 0.13 lb/ton, based on AP-42, Fifth Edition, Table 11.1-7, 3/2004
VOC emissions factor is 0.032 lb/ton, based on AP-42, Fifth Edition, Table 11.1-8, 3/2004;

actual asphalt production using natural gas in the drum dryer burner (tons asphalt/year, rolling, 12-month summation) x pollutant emissions factor (lb pollutant/ton asphalt) x 1 ton/2000 lbs = TPY, rolling, 12 month summation

where: NO_x emissions factor is 0.026 lb/ton, based on AP-42, Fifth Edition, Table 11.1-7, 3/2004
SO₂ emissions factor is 0.0034 lb/ton, based on AP-42, Fifth Edition, Table 11.1-7, 3/2004;

actual asphalt production using No. 2 oil or used oil in the drum dryer burner (tons asphalt/year, rolling, 12-month summation) x pollutant emissions factor (lb pollutant/ton asphalt) x 1 ton/2000 lbs = TPY, rolling, 12 month summation

where: NO_x emissions factor for No. 2 fuel oil or used oil use is 0.055 lb/ton, based on AP-42, Fifth Edition, Table 11.1-7, 3/2004
SO₂ emissions factor for No. 2 fuel oil use is 0.011 lb/ton, based on AP-42, Fifth Edition, Table 11.1-7, 3/2004
SO₂ emissions factor for used oil use is 0.058 lb/ton, based on AP-42, Fifth Edition, Table 11.1-7, 3/2004

The plant load-out and silo filling PE, PM10, CO and VOC emissions shall be added to the drum mix asphalt process emissions to determine compliance with the allowable emissions rates. The methods for determining these emissions is provided above.

Emissions Limitations

Visible particulate emissions from any stack associated with emissions unit P901 shall not exceed 10% percent opacity, as a six-minute average.

Visible particulate emissions from any fugitive dust emissions point associated with emissions unit P901 shall not exceed 20% percent opacity, as a three-minute average.

Applicable Compliance Method

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

2. Compliance with the used oil specifications in term A.2.a. shall be demonstrated by the record keeping requirements in term C.2.
3. Compliance with the fabric filter operational requirements in term B.1 shall be demonstrated by the record keeping requirements in term C.1.
4. Compliance with the annual asphalt production limitations in term B.3. shall be demonstrated by the record keeping requirements in term C.3.
5. Compliance with the RAP limitation in term B.4. shall be demonstrated by the record keeping requirements in term C.3.
5. Compliance with the sulfur content limitation in term B.5. shall be demonstrated by the record keeping requirements in term C.4.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C.1 - C.4., D. and E.