

Facility ID: 0857103035 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 0857103035 Emissions Unit ID: P001 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
rotary dryer, hot aggregate elevator, vibrating screens, and weigh hopper, 180 tons per hour with baghouse	OAC rule 3745-17-07	less than or equal to 20 percent opacity, as a 6-minute average, from the stack, except as provided by rule
	OAC rule 3745-17-11	10.5 lbs/hr particulate
	OAC rule 3745-31-05 PTI #08-3267	0.40 lbs/hr and 0.36 tons/yr of lead; 43.2 lbs/hr and 60 tons/yr of SO <sub>2</sub> ; 8.3 lbs/hr and 11.5 tons/yr of VOC; 30.6 lbs/hr and 42.5 tons/yr of NO <sub>x</sub> ; 12.4 lbs/hr and 17.25 tons/yr of CO; 0.10 lbs/hr and 0.09 tons/yr of HCl 14.60 tons/yr particulates
		No visible emissions of fugitive dust from the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper
		0.04 gr/dscf of exhaust gases;
aggregate storage bins and cold aggregate elevator	NSPS 40 CFR Part 60, Subpart I OAC rule 3745-31-05 PTI # 08-3267	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 elevator loading area. The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.  The aggregate loaded into the storage bins shall have a moisture content sufficient to eliminate the visible emissions of fugitive dust from the elevator and transfer point to the dryer.

**2. Additional Terms and Conditions**

- (a) In accordance with PTI 08-3267, this emissions unit has been approved for the use of recycled asphalt products.

**B. Operational Restrictions**

1. Specifications for the Used Oil Burned in the Dryer

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

Contaminant/Property Allowable Specification\*

arsenic 5 ppm, maximum  
cadmium 5 ppm, maximum  
chromium 25 ppm, maximum

lead 150 ppm, maximum  
 PCB's 10 ppm, maximum  
 total halogens 5000 ppm, maximum  
 mercury 1 ppm, maximum  
 flash point 100 degrees F, minimum  
 heat content 135,000 Btu/gal, minimum

\* 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.

2. The permittee may not receive or burn any used oil which does not meet the specifications listed above.
3. Used oil containing more than 1000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under 40 CFR 266.40(c) and OAC 3745-58-50. Therefore, the permittee may receive and burn used oil exceeding 1000 ppm of total halogens (but less than 5000 ppm, maximum) only if the supplier [marketer in 40 CFR 266.43(a)] has demonstrated to Ohio EPA's Division of Hazardous Waste Management that the used oil does not contain any hazardous waste.
4. The maximum annual production rate for this emissions unit shall not exceed 500,00 tons, based upon a rolling, 12-month summation of the production rates.
5. 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 or greater than 4 inches of water shall be maintained at all times while the emissions unit is in operation.

**C. Monitoring and/or Record Keeping Requirements**

1. 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 supplier's USEPA identification number, and the following information:
  - a. date of shipment or delivery
  - b. quantity of used oil received
  - c. the Btu value of the used oil
  - d. the flash point of the used oil
  - e. the arsenic content
  - f. the cadmium content
  - g. the chromium content
  - h. the lead content
  - i. the PCB content
  - j. the total halogen content
  - k. the mercury 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.

2. The permittee shall maintain monthly records of the following information:
  - a. The production rate for each month.
  - b. The rolling, 12-month summation of the production rates.
  - c. The amount, in gallons, of used oil received.
  - d. The amount, in gallons, of used oil burned.
  - e. The chemical analysis received for each shipment of used oil.
3. The permittee shall properly operate and maintain a monitoring device capable of accurately measuring the pressure drop across the fabric filter.
4. The permittee shall check the pressure drop once a day and maintain daily records of the pressure drop readings.
5. Used Oil On-Site Sampling/Analytical Requirements:
  - a. The permittee shall sample each incoming shipment of used oil. The sampling frequency for used oil shall be one properly labelled 500 ml sample for each truck or container delivery. The sample shall be taken and retained for at least 60 days.
  - b. The Regional Air Pollution Control Agency may require and/or conduct periodic, detailed chemical analyses through an independent laboratory of any used oil received at this facility.
6. The permittee shall install, operate, and maintain a bag leakage detection system.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month production rate limitation.
2. The permittee shall notify the USEPA and the Ohio EPA (appropriate District Office or local air agency) if any of the used oil exceeds the used oil specifications. An identification number from USEPA shall be obtained prior to the combustion of any used oil.

Before the permittee accepts the first shipment of any off-specification used oil from a marketer, the permittee must provide the marketer a one-time, written and signed notice certifying that:

a. the company has notified USEPA of its used oil management activities and that the notice included the location and description of those activities; and

b. the company will burn the used oil only in an industrial furnace or boiler identified in 40 CFR Part 266.41(b) and OAC 3745-58-42.

A copy of each certification notice that the permittee 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.

3. The permittee shall submit deviation (excursion) reports which identify all exceedances of the above-mentioned allowable pressure drop range for the baghouse.

**E. Testing Requirements**

1. Compliance Methods

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

Emission Limitation-

0.04 gr/dscf of exhaust gases, 10.5 lbs/hr of particulate

Applicable Compliance Method-

Compliance shall be based upon stack testing per OAC 3745-17-03(B)(10).

Emission Limitation-

14.6 tons/yr particulate

Applicable Compliance Method-

Compliance shall be determined by multiplying the average hourly emission rate, in pounds per ton of asphaltic concrete production from the most recent compliance test, by each 12-month production summation, and dividing by 2,000 lbs/ton. Until additional emission tests are conducted, the average emission rate of 0.008 lb/ton shall be used in this calculation.

Emission Limitation-

43.2 lbs/hr SO<sub>2</sub>

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly production rate of 180 tons/hr by the AP-42 emission factor for SO<sub>2</sub> (0.24 lb/ton). If required, compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-18-04(E).

Emission Limitation-

60.0 tons/yr of SO<sub>2</sub>

Applicable Compliance Method-

Compliance shall be based on the record keeping specified in C.2, multiplying each 12-month production summation by the AP-42 emission factor for SO<sub>2</sub> (0.24 lb/ton), and dividing by 2,000 lbs/ton.

Emission Limitation-

8.3 lbs/hr of VOC

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly production rate of 180 tons/hr by the AP-42 emission factor for VOC (0.046 lb/ton). If required, compliance shall be based on conducting a stack test in accordance with either USEPA Reference Method 25 or 25A (as appropriate), of 40 CFR Part 60, Appendix A.

Emission Limitation-

11.5 tons/yr of VOC

Applicable Compliance Method-

Compliance shall be based on the record keeping specified in C.2, multiplying each 12-month production summation by the AP-42 emission factor for VOC (0.046 lb/ton), and dividing by 2,000 lbs/ton.

Emission Limitation-

30.6 lbs/hr of NO<sub>x</sub>

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly production rate of 180 tons/hr by the AP-42 emission factor for NO<sub>x</sub> (0.17 lb/ton). If required, compliance shall be based on conducting a stack test in accordance with either USEPA Reference Method 7 or 7A (as appropriate), of 40 CFR Part 60, Appendix A.

Emission Limitation-

42.5 tons/yr NO<sub>x</sub>

Applicable Compliance Method-

Compliance shall be based on the record keeping specified in C.2, multiplying each 12-month production summation by the AP-42 emission factor for NO<sub>x</sub> (0.17 lb/ton), and dividing by 2,000 lbs/ton.

Emissions Limitation-

12.4 lbs/hr of CO

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly production rate of 180 tons/hr by the AP-42 emission factor for CO (0.069 lb/ton). If required, compliance shall be based on conducting a stack test in accordance with USEPA Reference Method 10, of 40 CFR Part 60, Appendix A.

Emission Limitation-

17.25 tons/yr of CO

Applicable Compliance Method-

Compliance shall be based on the record keeping specified in C.2, multiplying each 12-month production summation by the AP-42 emission factor for CO (0.069 lb/ton), and dividing by 2,000 lbs/ton.

Emission Limitation-  
0.4 lb/hr lead

Applicable Compliance Method-

Compliance shall be based upon stack testing employing USEPA Reference Method 12 of 40 CFR Part 60, Appendix A.

Emission Limitation-  
0.36 ton/yr lead

Applicable Compliance Method-

Compliance shall be determined by multiplying the average hourly emission rate, in pounds per ton of asphaltic concrete production from the most recent compliance test, by each 12-month production summation, and dividing by 2,000 lbs/ton. Until additional emission tests are conducted, the average emission rate of 0.000002 lb/ton shall be used in this calculation.

Emission Limitation-  
0.10 lb/hr of HCl

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly production rate of 180 tons/hr times an emission factor of 0.000296 lb/ton (this emission factor was determined from a stack test conducted on Valley Asphalt's Plant #6, Ohio EPA ID 0857101899). If required, compliance shall be based on conducting a stack test in accordance with either USEPA Reference Method 26 or 26A (as appropriate), of 40 CFR Part 60, Appendix A.

Emission Limitation-  
0.09 ton/yr of HCl

Applicable Compliance Method-

Compliance shall be based on the record keeping specified in C.2, multiplying each 12-month production summation by the HCl emission factor (0.000296 lb/ton), and dividing by 2,000 lbs/ton.

Emissions Limitation-  
20 percent opacity as a 6-minute average

Applicable Compliance Method-  
OAC rule 3745-17-03(B)(1)

Emissions Limitation-  
20 percent opacity as a 3-minute average

Applicable Compliance Method-  
OAC rule 3745-17-03(B)(3)

2. Within 6 months prior to permit expiration, the permittee shall conduct, or have conducted, an emission test(s) for this emissions unit in order to demonstrate compliance with the allowable mass emission rate(s) for particulates. The particulates test(s) shall be conducted in accordance with the test methods and procedures specified in "USEPA Reference Method 5, of 40 CFR Part 60, Appendix A" while the emissions unit is operating at or near maximum capacity and using only "virgin aggregate".

Within 6 months prior to permit expiration, the permittee shall conduct, or have conducted, an emission test(s) for this emissions in order to demonstrate compliance with the allowable mass emission rate(s) for lead. The lead test(s) shall be conducted in accordance with the test methods and procedures specified in "USEPA Reference Method 12, of 40 CFR Part 60, Appendix A" while the emissions unit is operating at or near maximum capacity and using only "virgin aggregate".

Within 6 months prior to permit expiration, the permittee shall conduct, or have conducted, an emission test(s) for this emissions in order to demonstrate compliance with the allowable mass emission rate(s) for VOC. The VOC test(s) shall be conducted in accordance with the test methods and procedures specified in "USEPA Reference Method 25 or 25A, of 40 CFR Part 60, Appendix A" while the emissions unit is operating at or near maximum capacity and using only "virgin aggregate".

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification. 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 field office's refusal to accept the results of the emissions test(s).

Personnel from the Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment and acquire data and information regarding the emissions unit operating parameters.

A comprehensive written report on the results of the emission test(s) shall be submitted within 30 days following completion of the test(s).

**F. Miscellaneous Requirements**

1. The permittee 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 emissions unit.
2. The permittee is hereby notified that this permit, and all agency records concerning the operation of this permitted emissions unit are subject to public disclosure in accordance with OAC rule 3745-49-03.