

Facility ID: 0855140230 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: 0855140230 Emissions Unit ID: P901 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

**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, 240 tons per hour with a water spray scrubber.	OAC rule 3745-17-07(A)  OAC rule 3745-17-11 OAC rule 3745-31-05 PTI #08-3394	Visible particulate emissions shall not exceed 20 percent opacity, as a 6-minute average, except as provided by the rule.  60.51 lbs particulate/hr 37.81 TPY particulate; 0.46 lb/hr and 0.29 TPY lead; 57.6 lbs/hr and 36.0 TPY SO <sub>2</sub> ; 11.04 lbs/hr and 6.9 TPY OC; 40.8 lbs/hr and 25.5 TPY NO <sub>x</sub> ; 81.6 lbs/hr and 51.0 TPY CO; 0.10 lb/hr and 0.06 TPY HCl  No visible emissions of fugitive dust from the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper
aggregate storage bins and cold aggregate elevator	OAC rule 3745-31-05 PTI #08-3394  OAC rule 3745-17-07(B)	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 aggregate loaded into the storage bins shall have a moisture content sufficient to eliminate the visible emissions of fugitive dust from the elevator and the transfer point to the dryer.  The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.

**2. Additional Terms and Conditions**

- (a) The 0.46 lb/hr of lead, 57.6 lbs/hr of SO<sub>2</sub>, 11.04 lbs/hr of OC, 40.8 lbs/hr of NO<sub>x</sub>, 81.6 lbs/hr of CO, and 0.10 lb/hr of HCl emissions limitations were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with these limits. In accordance with PTI 08-3394, 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 2 ppm, maximum  
chromium 10 ppm, maximum

lead 100 ppm, maximum  
 PCB's 50 ppm, maximum  
 total halogens 4000 ppm, maximum  
 mercury 1 ppm, maximum  
 flash point 100 degrees Fahrenheit, minimum  
 heat content 135,000 BTU/gallon, 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. An exceedance would be considered a violation of OAC rule 3745-31-02.
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 4000 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. **Used Oil On-Site Sampling/Analytical Requirements**  
  
 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.  
  
 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; or any sample retained, as required above; and of any storage tanks at this facility.
5. The maximum annual production rate for this emissions unit shall not exceed 300,000 tons, based upon a rolling, 12-month summation of the production rates.
6. The pressure drop across the scrubber shall be continuously maintained at a value of not less than 1.5 inches of water at all times while the emissions unit is in operation.
7. The scrubber nozzle pressure shall be continuously maintained at a value of not less than 40 psi, which corresponds to a water flow rate of 300 gallons per minute, 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; and
  - 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 analysis 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 (tons).
  - b. the rolling, 12-month summation of the production rates (beginning the 13th calendar month after the issuance of the PTI, 08-3394, issued on 11/1/95, and the subsequent modification issued on 10/9/96).
  - c. the amount (gallons) of used oil received.
  - d. the amount (gallons) of used oil burned.
  - e. the chemical analysis received for each shipment of used oil.
3. The permittee shall properly install, operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the scrubber nozzle pressure (which corresponds to the water flow rate) while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.  
  
 The permittee shall collect and record the following information each day:
  - (a) The pressure drop across the scrubber, in inches of water, on daily basis.
  - (b) The scrubber nozzle pressure, in psi, and the corresponding water flow rate, in gallons per minute, on daily basis.

- (c) The operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

**D. Reporting Requirements**

1. The permittee shall submit annual reports to the Director (the appropriate Ohio EPA District Office or local air agency) which include the data specified in section C.2. These reports shall be due by January 15 of each year, and shall cover the previous twelve calendar months.
2. In accordance with paragraph 3 of the General Terms and Conditions, the permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month production rate limitation.
3. 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.

4. In accordance with paragraph 3 of the General Terms and Conditions, the permittee shall submit deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:
  - (a) The static pressure drop across the scrubber.
  - (b) The scrubber nozzle pressure, and the corresponding water flow rate.

**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-  
60.51 lbs/hr particulate

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

Emission Limitation-  
37.81 TPY 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 0.038 lb/ton (determined from 7/9/96 and 7/10/96 stack test for Barrett #138) shall be used in this calculation.

Emission Limitation-  
0.46 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-  
0.29 TPY 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 0.000007 lb/ton (determined from 7/9/96 and 7/10/96 stack test for Barrett #138) shall be used in this calculation.

Emission Limitation-  
57.6 lbs/hr SO<sub>2</sub>

Applicable Compliance Method-  
Compliance shall be determined by multiplying the maximum hourly production rate of 240 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-  
36.0 TPY SO<sub>2</sub>

Applicable Compliance Method-  
Compliance shall be based on the recordkeeping specified in section 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-  
11.04 lbs/hr OC

## Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly production rate of 240 tons/hr by the AP-42 emission factor for OC (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-  
6.9 TPY OC

## Applicable Compliance Method-

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

Emission Limitation-  
40.8 lbs/hr NOx

## Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly production rate of 240 tons/hr by the AP-42 emission factor for NOx (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-  
25.5 TPY NOx

## Applicable Compliance Method-

Compliance shall be based on the recordkeeping specified in section C.2., multiplying each 12-month production summation by the AP-42 emission factor for NOx (0.17 lb/ton), and dividing by 2,000 lbs/ton.

Emission Limitation-  
81.6 lbs/hr CO

## Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly production rate of 240 tons/hr by the AP-42 emission factor for CO (0.34 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-  
51.0 TPY CO

## Applicable Compliance Method-

Compliance shall be based on the recordkeeping specified in section C.2., multiplying each 12-month production summation by the AP-42 emission factor for CO (0.34 lb/ton), and dividing by 2,000 lbs/ton.

Emission Limitation-  
0.10 lb/hr HCl

## Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly production rate of 240 tons/hr times an emission factor of 0.000296 lb/ton. This emissions factor came from a stack test of Valley Asphalt Plant #6 which is a similar batch plant process. 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-  
0.06 TPY HCl

## Applicable Compliance Method-

Compliance shall be based on the recordkeeping specified in section 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)

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

## Applicable Compliance Method-

OAC rule 3745-17-03(B)(3)

1. During the last full production season which this permit is effective, 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".

During the last full production season which this permit is effective, 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 lead. The lead test(s) shall be conducted in accordance with 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".

During the last full production season which this permit is effective, 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 hydrogen chloride. The hydrogen chloride test(s) shall be conducted in accordance with test methods and procedures specified in "USEPA Reference Method 26 or 26A (as appropriate), 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.