



John R. Kasich, Governor  
 Mary Taylor, Lt. Governor  
 Craig W. Butler, Director

4/20/2016

Certified Mail

BETH MOWREY  
 Shelly Liquid Division  
 P.O. BOX 266  
 THORNVILLE, OH 43076

No	TOXIC REVIEW
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MODELING SUBMITTED
Yes	SYNTHETIC MINOR TO AVOID TITLE V
Yes	FEDERALLY ENFORCABLE PTIO (FEPTIO)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

RE: DRAFT AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0627000046  
 Permit Number: P0119375  
 Permit Type: Administrative Modification  
 County: Gallia

Dear Permit Holder:

A draft of the Ohio Administrative Code (OAC) Chapter 3745-31 Air Pollution Permit-to-Install and Operate (PTIO) for the referenced facility has been issued for the emissions unit(s) listed in the Authorization section of the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the permit. A public notice will appear in the Ohio Environmental Protection Agency (EPA) Weekly Review and the local newspaper, Gallipolis Daily Tribune. A copy of the public notice and the draft permit are enclosed. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc) by clicking the "Search for Permits" link under the Permitting topic on the Programs tab. Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Any comments must be sent to the following:

Andrew Hall and Ohio EPA DAPC, Southeast District Office  
 Permit Review/Development Section 2195 Front Street  
 Ohio EPA, DAPC Logan, OH 43138  
 50 West Town Street Suite 700  
 PO Box 1049  
 Columbus, Ohio 43216-1049

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified if a public hearing is scheduled. A decision on issuing a final permit-to-install will be made after consideration of comments received and oral testimony if a public hearing is conducted. Any permit fee that will be due upon issuance of a final Permit-to-Install is indicated in the Authorization section. Please do not submit any payment now. If you have any questions, please contact Ohio EPA DAPC, Southeast District Office at (740)385-8501.

Sincerely,

Michael E. Hopkins, P.E.  
 Assistant Chief, Permitting Section, DAPC

Cc: U.S. EPA Region 5 Via E-Mail Notification  
 Ohio EPA-SEDO; Kentucky; West Virginia





## Permit Strategy Write-Up

1. Check all that apply:

Synthetic Minor Determination

Netting Determination

2. Source Description:

Shelly Liquid Division is an existing liquid asphalt terminal, located at 1400 State Route 7 North in Gallipolis, Ohio (Gallia County).

The permitted emissions units located at the facility are B001 (hot oil heater #1), J001 (loading rack #1), J002 (loading rack #2), T001-T007 (liquid asphalt storage tanks), and T010-T013 (liquid asphalt storage tanks). The de minimis sources are EUs P801 (equipment leaks), T014-T015 (HMO expansion tanks), and T016 (Emulsion tank). EUs B002-B015 (hot oil heaters), T008 (kerosene tank) and T009 (diesel tank) are permit exempt.

Shelly Liquids submitted application A0047470 on 5/14/15, but after further discussions, Shelly submitted a revised application (A0055313) on 3/31/16 that included a synthetic minor restriction for the two loading racks based on the throughput of the liquid asphalt in order to keep facility-wide VOC emissions below major source threshold. This FEPTIO is an administrative modification for liquid asphalt storage tanks T001-T007 and T010-T013. This facility first began operations in May 1989, and considered the loading rack emissions de minimis. However, since a facility review was done of the emission sources and potential to emit, the facility submitted a synthetic minor application for the loading racks, and restricted the throughput of the liquid asphalt material to 131,699,741 gallons on a rolling, 12-month basis, which total amount could be loaded through either rack. With the synthetic minor restriction of the loading racks, the liquid asphalt storage tanks (T001-T007, T010-T013) are inherently limited in the amount of throughput, and by limiting the throughput, this will restrict EUs J001, J002, T001-T007, and T010-T013 at the facility to 98 tons per rolling, 12-month period of VOC emissions in order for the facility to avoid being Title V.

An initial install FEPTIO (P0118909) for the loading racks (J001 and J002), initial install permit for the roadways P0120681 (F001), and a renewal PTIO for the hot oil heater #1 (B001) will issue separately.

3. Facility Emissions and Attainment Status:

The facility has elected to be subject to synthetic minor regulations in order to stay out of Title V realm. Therefore, the requested allowable of 98.0 TPY has been utilized in capturing the facility-wide emissions for VOC for all permitted sources (combined with all unpermitted sources, the PTE is 99.0 TPY). This limitation has also been used at the EU level for J001 and J002, combined. The facility has taken a material throughput restriction, which will limit their facility-wide single VOC emissions to 99.0 TPY. Combined HAPs for the loading racks are below 1 TPY.

The facility is currently in attainment for all ambient air quality standards and the City of Gallipolis is an Appendix A area. However, this facility is not located in the City of Gallipolis, thus not subject to the rules for Appendix A areas per OAC rule 3745-17-08.



4. Source Emissions:

J001 and J002, as well as T001-T007, T010-T013, are a source of VOC, HAPs and particulate emissions.

5. Conclusion:

The operational, monitoring, recordkeeping, reporting, and testing requirements are sufficient to ensure compliance with the emission limitations established.

6. Please provide additional notes or comments as necessary:

None

7. Total Permit Allowable Emissions Summary (for informational purposes only):

<u>Pollutant</u>	<u>Tons Per Year Loading Racks</u>	<u>Tons Per Year Tanks</u>
VOC	17.11	80.21
PE	4.83	23.11
Single HAP	0.38	
Total HAPs	0.67	

## PUBLIC NOTICE

The following matters are the subject of this public notice by the Ohio Environmental Protection Agency. The complete public notice, including any additional instructions for submitting comments, requesting information, a public hearing, or filing an appeal may be obtained at: <http://epa.ohio.gov/actions.aspx> or Hearing Clerk, Ohio EPA, 50 W. Town St., Columbus, Ohio 43215. Ph: 614-644-2129 email: [HClerk@epa.ohio.gov](mailto:HClerk@epa.ohio.gov)

### Draft Air Pollution Permit-to-Install and Operate Administrative Modification Shelly Liquid Division

1400 State Route 7 North,,Gallipolis, OH 45631

ID#:P0119375

Date of Action: 4/20/2016

Permit Desc:This administrative modification permit is to update the allowable emissions from each tank after a review of the maximum asphalt handling capacity based on a synthetic minor restriction of the liquid asphalt throughput as requested by the facility..

The permit and complete instructions for requesting information or submitting comments may be obtained at: <http://epa.ohio.gov/dapc/permitonline.aspx> by entering the ID # or: Steve Alspach, Ohio EPA DAPC, Southeast District Office, 2195 Front Street, Logan, OH 43138. Ph: (740)385-8501





**DRAFT**

**Division of Air Pollution Control  
Permit-to-Install and Operate  
for  
Shelly Liquid Division**

Facility ID:	0627000046
Permit Number:	P0119375
Permit Type:	Administrative Modification
Issued:	4/20/2016
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance





**Division of Air Pollution Control**  
**Permit-to-Install and Operate**  
for  
Shelly Liquid Division

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**Draft Permit-to-Install and Operate**

Shelly Liquid Division

**Permit Number:** P0119375

**Facility ID:** 0627000046

**Effective Date:** To be entered upon final issuance

## Authorization

Facility ID: 0627000046  
Application Number(s): A0020464, A0020466, A0020467, A0020468, A0047470, A0055313, A0055785  
Permit Number: P0119375  
Permit Description: This administrative modification permit is to update the allowable emissions from each tank after a review of the maximum asphalt handling capacity based on a synthetic minor restriction of the liquid asphalt throughput as requested by the facility.  
Permit Type: Administrative Modification  
Permit Fee: \$8,250.00 *DO NOT send payment at this time, subject to change before final issuance*  
Issue Date: 4/20/2016  
Effective Date: To be entered upon final issuance  
Expiration Date: To be entered upon final issuance  
Permit Evaluation Report (PER) Annual Date: To be entered upon final issuance

This document constitutes issuance to:

Shelly Liquid Division  
1400 State Route 7 North  
Gallipolis, OH 45631

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Southeast District Office  
2195 Front Street  
Logan, OH 43138  
(740)385-8501

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section 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 described emissions unit(s) will operate in compliance with applicable State and Federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Craig W. Butler  
Director



## Authorization (continued)

Permit Number: P0119375

Permit Description: This administrative modification permit is to update the allowable emissions from each tank after a review of the maximum asphalt handling capacity based on a synthetic minor restriction of the liquid asphalt throughput as requested by the facility.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

**Emissions Unit ID: T003**  
 Company Equipment ID: Battery #1 - T003  
 Superseded Permit Number: P0037655  
 General Permit Category and Type: Not Applicable

**Emissions Unit ID: T006**  
 Company Equipment ID: Battery #3 - T006  
 Superseded Permit Number: 06-05573  
 General Permit Category and Type: Not Applicable

**Emissions Unit ID: T007**  
 Company Equipment ID: Battery #3 - T007  
 Superseded Permit Number: P0089211  
 General Permit Category and Type: Not Applicable

**Emissions Unit ID: T010**  
 Company Equipment ID: Battery #2 - T010  
 Superseded Permit Number: 06-06923  
 General Permit Category and Type: Not Applicable

**Group Name: Liquid Asphalt Tanks 2.25 Mgal**

<b>Emissions Unit ID:</b>	<b>T001</b>
Company Equipment ID:	Battery #1 - T001
Superseded Permit Number:	P0037653
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>T002</b>
Company Equipment ID:	Battery #1 - T002
Superseded Permit Number:	P0037654
General Permit Category and Type:	Not Applicable

**Group Name: Liquid Asphalt Tanks 7.14 Mgal**

<b>Emissions Unit ID:</b>	<b>T011</b>
Company Equipment ID:	Battery #4 - T011
Superseded Permit Number:	06-07018
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>T012</b>
Company Equipment ID:	Battery #4 - T012
Superseded Permit Number:	06-07018
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>T013</b>
Company Equipment ID:	Battery #4 - T013
Superseded Permit Number:	06-07018
General Permit Category and Type:	Not Applicable



**Draft Permit-to-Install and Operate**

Shelly Liquid Division

**Permit Number:** P0119375

**Facility ID:** 0627000046

**Effective Date:** To be entered upon final issuance

**Group Name: Liquid Asphalt Tanks 840 K**

<b>Emissions Unit ID:</b>	<b>T004</b>
Company Equipment ID:	Battery #2 - T004
Superseded Permit Number:	P0037656
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>T005</b>
Company Equipment ID:	Battery #2 - T005
Superseded Permit Number:	P0037657
General Permit Category and Type:	Not Applicable



**Draft Permit-to-Install and Operate**  
Shelly Liquid Division  
**Permit Number:** P0119375  
**Facility ID:** 0627000046  
**Effective Date:** To be entered upon final issuance

## **A. Standard Terms and Conditions**

**1. What does this permit-to-install and operate ("PTIO") allow me to do?**

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

**2. Who is responsible for complying with this permit?**

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

**3. What records must I keep under this permit?**

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

**4. What are my permit fees and when do I pay them?**

There are two fees associated with permitted air contaminant sources in Ohio:

PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

**5. When does my PTIO expire, and when do I need to submit my renewal application?**

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is

very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

**6. What happens to this permit if my project is delayed or I do not install or modify my source?**

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

**7. What reports must I submit under this permit?**

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

**8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?**

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions of this permit will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

**9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?**

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

**10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?**

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Ohio EPA DAPC, Southeast District Office in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

**11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?**

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

**12. What happens if one or more emissions units operated under this permit is/are shut down permanently?**

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

**13. Can I transfer this permit to a new owner or operator?**

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

**14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?**

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

**15. What happens if a portion of this permit is determined to be invalid?**

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.



**Draft Permit-to-Install and Operate**  
Shelly Liquid Division  
**Permit Number:** P0119375  
**Facility ID:** 0627000046  
**Effective Date:** To be entered upon final issuance

## **B. Facility-Wide Terms and Conditions**

1. 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).

a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

(1) 2.a), 3.a), 4.a), 5.a) and 6.a)

2. Applicable Emissions Limitations and/or Control Requirements

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (Synthetic minor restriction to avoid Title V requirements)	Volatile organic compound (VOC) emissions from all permitted sources at the facility (emissions units J001, J002, T001-T007, and T010-T013) shall be less than 98.0 tons per rolling, 12-month period.  See 3.a) below.
b.	OAC rule 3745-31-05(F) (Voluntary Restriction)	See 3.b) and 4.c) below.

3. Operational Restrictions

a) The maximum combined annual throughput rate for J001 and J002, combined, shall not exceed 131,669,741 gallons, based upon a rolling, 12-month summation of the throughput rates. Emissions units J001 and J002 have been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the throughput rate, upon issuance of this permit. The maximum annual throughput rate of EUs J001 and J002 inherently restricts the annual throughput of storage tanks T001, T002, T003, T004, T005, T006, T007, T010, T011, T012 and T013.

Combined potential emissions from all other emissions units at the facility including de minimis units, permit exempt units, and B001 are less than 2 TPY. The permittee is advised that prior to installing any other VOC sources, that they must evaluate facility-wide potential to emit and apply for and obtain any needed federally enforceable restrictions to limit emissions below major source threshold.

- b) The PTIO for this air contaminant source takes into account the following voluntary restriction for emissions units J001, J002, T001-T005, and T010-T013 as proposed by the permittee for the purpose of preventing the emission of offensive or objectionable odors in violation of OAC rule 3745-15-07:

The storage vessels and loading racks shall be equipped with a carbon filter system to control odors.

4. Monitoring and/or Recordkeeping Requirements

- a) The permittee shall maintain monthly records of the following information for J001, J002, T001-T007, and T010-T013:
- a. the throughput of liquid asphalt through each loading rack and each tank, in gallons;
  - b. the loading loss from the loading rack, in pounds of VOC per 1,000 gallons, as calculated based on the equation in 6.a)(1)a.;
  - c. the average daily temperature for the month, in °R, using National Weather Service data (or equivalent);
  - d. the temperature of the bulk liquid, in °R, as calculated based on the equation in 6.a)(1)a.;
  - e. the true vapor pressure of the liquid loaded, in psia, from the representative sample or certified material analysis;
  - f. the number of roof landing episodes for each tank;
  - g. the VOC emissions, in tons, as calculated based on the equations in 6.a)(1)a. and b.; and
  - h. the rolling, 12-month summation of the total VOC emissions, in tons, as calculated based on the equation in 6.a)(1)c.
- b) Each time a barge containing the liquid asphalt material is received, the permittee shall either collect and analyze a representative sample of the incoming liquids, or maintain a record of a certified material analysis provided with delivery, to verify the asphalt true vapor pressure (psia). The permittee shall use the results of the analysis to verify that the psia of the material under storage conditions (taking into account temperature) does not exceed 0.13 psia. If the asphalt liquid has a true vapor pressure exceeding 0.13 psia, then the permittee shall submit the analysis to the appropriate District Office or Local Air Authority.
- c) The permittee shall collect and record the following information each day the carbon adsorber is required to demonstrate compliance with the voluntary restriction contained in this permit:
- (1) The permittee shall properly operate and maintain the carbon adsorber, in accordance with the manufacturer's recommendations, instructions, and operating manuals, to control the odors.

- (2) The permittee shall monitor for breakthrough from the carbon filter associated with this emissions unit on a daily basis beginning after installation of each new carbon filter. Monitoring shall be conducted by olfactory means, and the permittee shall replace the carbon filter within twenty-four (24) hours upon detection of breakthrough.
  - a. Initial monitoring shall be completed within 14 days of startup and weekly thereafter for a period of one year.
  - b. If following the initial year period, the breakthrough from the carbon filter is determined to be less than twice in an annual period, then the frequency of monitoring can be reduced to quarterly.
  - c. If following twelve consecutive monthly periods, the breakthrough from the carbon filter is determined to be less than twice in an annual period during the most recent monthly monitoring event, then the frequency of the monitoring can be reduced to semi-annual.
  - d. If the breakthrough from the carbon filter is determined to be more than twice in an annual period during any one of the semi-annual or annual monitoring events, then the frequency of monitoring shall be returned to quarterly.
- (3) The permittee shall monitor for odors at the carbon adsorber outlet on a weekly basis using a Method 21 analyzer.
  - a. Initial monitoring shall be completed within 14 days of startup and weekly thereafter for a period of one year.
  - b. If following the initial year period, the breakthrough from the carbon filter is determined to be less than twice in an annual period, then the frequency of monitoring can be reduced to quarterly.
  - c. If following twelve consecutive monthly periods, the breakthrough from the carbon filter is determined to be less than twice in an annual period during the most recent monthly monitoring event, then the frequency of the monitoring can be reduced to semi-annual.
  - d. If the breakthrough from the carbon filter is determined to be more than twice in an annual period during any one of the semi-annual or annual monitoring events, then the frequency of monitoring shall be returned to quarterly.
- (4) The permittee shall maintain a supply of fresh carbon filters (i.e., at least two (2) fresh carbon filters) at the facility.
- (5) The permittee shall maintain records of dates and times when the carbon adsorber is monitored, when breakthrough is measured, and shall record the date and time when the existing carbon in the control device is replaced with fresh carbon.
- (6) The permittee shall have the charcoal in carbon adsorber tested every six months to analyze if the carbon is spent.

- (7) The permittee shall perform an annual routine inspection and maintenance of the carbon adsorber.

These records shall be maintained at the facility for a period of 5 years.

## 5. Reporting Requirements

- a) The permittee shall submit quarterly deviation (excursion) reports for J001, J002, T001-T007, and T010-T013 that identify:

- (1) all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:

- a. all exceedances of the rolling, 12-month VOC limitation and/or throughput rate.
- b. any material received that has a psia greater than 0.13 from a representative sample taken.
- c. the probable cause of each deviation (excursion);
- d. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- e. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter. The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

- (2) all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:

- a. any material received that has a psia greater than 0.13 from a representative sample taken or certified material analysis.
- b. the probable cause of each deviation (excursion);
- c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter. The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

6. Testing Requirements

a) Compliance with the emissions limitations and/or control requirements specified in b)(1) of these terms and conditions shall be determined in accordance with the following methods:

(1) Emissions Limitation:

VOC emissions from all permitted sources at the facility (emissions units J001, J002, T001-T007, and T010-T013) shall be less than 98.0 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance with the rolling, 12-month emissions limitation for VOC shall be demonstrated by the following calculations based on the emissions estimation equations in AP-42 Chapter 5.2 (6/08) and AP-42 Section 7.1.3.2 (11/06) and the information collected pursuant to the recordkeeping requirements in 4.a) of this permit.

a. Rolling, 12-month Loading Rack VOC Emissions

$$X = (G)(L_L) * 1 \text{ ton}/2,000 \text{ lbs}$$

where:

X = tons of VOC emissions per rolling, 12-month from the loading racks;

G = annual throughput of liquid asphalt through the loading racks, in Mgallons (131,670,000/1,000); and

L<sub>L</sub> = VOC loading loss, in pounds of VOC per 1,000 gallons of liquid asphalt loaded, calculated based on the following equation:

$$L_L = 12.46 X \text{ SPM}/T_\beta$$

where:

L<sub>L</sub> = maximum hourly VOC loading loss of 0.26 pounds of VOC per 1,000 gallons of liquid loaded;

S = saturation factor for clean cargo tank of 1.45 from AP-42 Table 5.2-1 (6/08);

P = true vapor pressure of 0.13 of liquid loaded, in psia; vapor pressure results from analysis of liquid asphalt at Gallipolis facility;;

M = molecular weight of vapors of 84 lb/lb-mole from information obtained by permittee; and

T<sub>β</sub> = temperature of bulk liquid, in °R (°F + 300), as calculated based on Equation 1-28 of AP-42 Chapter 7.1 (11/06) where T<sub>AA</sub> = the

average daily ambient temperature for the month in °R (based on National Weather Service data, or equivalent) and the tank heated temperature of 300°.

b. Monthly Tank VOC Emissions determined using records required in the Sections B.4.a) and b) in the Facility Wide Terms and Conditions and in accordance with the calculation methodology provided in the permittee's application and the emissions estimation equations in AP-42 Section 7.1.3.2 (11/06) for uncontrolled losses from normal tank operations (maximum potential based on loading rack synthetic minor restriction per the permittee's application), physical characteristics of the tanks, liquid asphalt properties and site-specific weather condition information.

c. Total VOC Emissions (per rolling, 12-month period)

$$\sum_{i=1}^N (X) + (Y) + (Z) \text{ is } \leq 98.0 \text{ tons VOC, as a rolling 12-month summation}$$

where:

N = months in the rolling, 12-month period.

7. The emission units in this permit are not subject to the requirements of Title 40, Code of Federal Regulations, Part 63, Subpart LLLLLL given that the facility is not a major source of hazardous air pollutants.
8. The emission units in this permit are not subject to the requirements of Title 40, Code of Federal Regulations, Part 63, Subpart AAAAAAA given that the facility does not contain any asphalt blowing stills and is not classified as "asphalt roofing manufacturing."
9. The emission units in this permit are not subject to the requirements of Title 40, Code of Federal Regulations, Part 60, Subpart UU given that the permittee does not blow asphalt for use in the manufacture of asphalt products and does not produce any asphalt roofing products.



**Draft Permit-to-Install and Operate**  
Shelly Liquid Division  
**Permit Number:** P0119375  
**Facility ID:** 0627000046  
**Effective Date:** To be entered upon final issuance

## **C. Emissions Unit Terms and Conditions**

**1. Emissions Unit Group – Liquid Asphalt Storage Tanks: T001 and T002**

<b>EU ID</b>	<b>Operations, Property and/or Equipment Description</b>
T001	2.25 Million Gallon Asphalt Storage tank
T002	2.25 Million Gallon Asphalt Storage tank

a) 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. b)(1)e.

b) Applicable Emissions Limitations and/or Control Requirements

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

	<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
a.	OAC rule 3745-31-05(A)(3)	<p>Volatile organic compound (VOC) emissions shall not exceed 5.94 tons per year.</p> <p>Particulate emissions (PE) shall not exceed 1.68 tons per year.</p> <p>Visible PE from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.</p>
b.	OAC rule 3745-17-07(A)	<p>Visible PE from the stack serving this emissions unit shall not exceed 20% opacity as a six-minute average, except as provided by the rule.</p> <p>This PE limitation is less stringent than the limitation listed under OAC rule 3745-31-05(A)(3).</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rule 3745-17-11(B) (Table 1)	This PE limitation is less stringent than the limitation listed under OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-21-09(L)(3)	See b)(2)a. and d)(2) below.
e.	OAC rule 3745-31-05(D) (Synthetic Minor to avoid Title V applicability)	See Section B. above.
f.	OAC rule 3745-31-05(F) (Voluntary Restriction)	See Section B. above.
g.	40 CFR, Part 60, Subpart Kb	This emissions unit is exempt from this rule per 40 CFR 60.110b because this storage vessel has a capacity greater than or equal to 151 m <sup>3</sup> (39,890 gallons) and storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals (0.5076 psia).  See b)(2)b. below.

(2) Additional Terms and Conditions

- a. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid that, as stored, has a true vapor pressure greater than 3.5 kPa (0.5076 psia) per §60.110b(b) or 1.52 psia per OAC rule 3745-21-09(L)(1), unless the tank is equipped with an internal floating roof or equivalent control approved by the Director (the appropriate Ohio EPA district office or local air agency) prior to storing a petroleum liquid with a higher vapor pressure.
- b. The asphalt stored in the liquid asphalt storage tanks is maintained at a maximum temperature of 300° F and has a maximum true vapor pressure less than 3.5 kPa (0.5076 psia); therefore, the requirements of these rules do not apply.

c) Operational Restrictions

- (1) See Section B. above.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;

- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

- (2) The permittee shall maintain records of the following information for the fixed roof tank:
  - a. the types of petroleum liquids stored in the tank; and
  - b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each petroleum liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

These records shall be maintained for at least 5 years and shall be made available to the Director or his representative upon verbal or written request.

e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(1) above:
  - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
  - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.



- (4) If the permittee places, stores, or holds, in the fixed roof tanks, any petroleum liquid with a true vapor pressure that is greater than 3.5 kPa (0.5076 psia) per §60.110b(b) or 1.52 psia per OAC rule 3745-21-09(L)(1), the permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of becoming aware of the occurrence:
  - a. the date that such petroleum liquid was first stored in the tank;
  - b. the date removed (if removed);
  - c. the total gallons throughput of each petroleum liquid exceeding this vapor pressure; and
  - d. the proposed method of compliance shall be included in the report
  
- f) Testing Requirements
  - (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
    - a. Emissions Limitation:

VOC emissions shall not exceed 5.94 tons per year.

Applicable Compliance Method:

Compliance with the tons per year emissions limitation and throughput of 35,111,931 gal/yr for this unit shall be determined using records required in the Sections B.4.a) and b) in the Facility Wide Terms and Conditions and Section C.d)1.d)(2) of the Emissions Unit Terms and Conditions, and in accordance with the calculation methodology provided in the permittee's application and the emissions estimation equations in AP-42 Section 7.1.3.2 (11/06) for uncontrolled losses from normal tank operations (maximum potential based on loading rack synthetic minor restriction per the permittee's application), physical characteristics of the tanks, liquid asphalt properties and site-specific weather condition information.

If required, volatile organic compound emissions shall be determined according to test Method 25 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.
    - b. Emissions Limitation:

PE shall not exceed 1.68 tons per year.



#### Applicable Compliance Method

Compliance with the annual emissions limitation shall be determined by multiplying the tons per year VOC emissions (as determined in f)(1)a., above) by the appropriate scaling factor to convert the calculated emission rates for VOC to emission rates for PM. The scaling factors were determined using literature values relevant to the asphalt industry based on historic PM/VOC portioning data for asphalt storage tanks (as provided in the permittee's application from guidance outlined in Estimates of Air Emissions from Asphalt Storage Tanks and Truck Loading, Table 4 (David C. Trumbore, Environmental Progress, Vol. 18, No. 4)), where particulate is approximately 22% of the hydrocarbon fume and VOCs are 78%. Compliance with the annual emissions limitation shall be demonstrated by the following equations:

Normal tank operations:

$$X = (\text{annual VOC emissions} / 0.78) * 0.22$$

c. Emission Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.

#### Applicable Compliance Method

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

g) Miscellaneous Requirements

- (1) None.

**2. T003, Liquid Asphalt Storage Tank**

**Operations, Property and/or Equipment Description:**

2.31 Million Gallon Asphalt Storage tank.

- a) 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. b)(1)e.
- b) Applicable Emissions Limitations and/or Control Requirements
  - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	<p>Volatile organic compound (VOC) emissions shall not exceed 5.94 tons per year.</p> <p>Particulate emissions (PE) shall not exceed 1.68 tons per year.</p> <p>Visible PE from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.</p>
b.	OAC rule 3745-17-07(A)	<p>Visible PE from the stack serving this emissions unit shall not exceed 20% opacity as a six-minute average, except as provided by the rule.</p> <p>This PE limitation is less stringent than the limitation listed under OAC rule 3745-31-05(A)(3).</p>

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rule 3745-17-11(B) (Table 1)	This PE limitation is less stringent than the limitation listed under OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-21-09(L)(3)	See b)(2)a. and d)(2) below.
e.	OAC rule 3745-31-05(D) (Synthetic Minor to avoid Title V applicability)	See Section B. above.
f.	OAC rule 3745-31-05(F) (Voluntary Restriction)	See Section B. above.
g.	40 CFR, Part 60, Subpart Kb	This emissions unit is exempt from this rule per 40 CFR 60.110b because this storage vessel has a capacity greater than or equal to 151 m <sup>3</sup> (39,890 gallons) and storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals (0.5076 psia).  See b)(2)b. below.

(2) Additional Terms and Conditions

- a. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid that, as stored, has a true vapor pressure greater than 3.5 kPa (0.5076 psia) per §60.110b(b) or 1.52 psia per OAC rule 3745-21-09(L)(1), unless the tank is equipped with an internal floating roof or equivalent control approved by the Director (the appropriate Ohio EPA district office or local air agency) prior to storing a petroleum liquid with a higher vapor pressure.
- b. The asphalt stored in the liquid asphalt storage tanks is maintained at a maximum temperature of 300° F and has a maximum true vapor pressure less than 3.5 kPa (0.5076 psia); therefore, the requirements of these rules do not apply.

c) Operational Restrictions

- (1) See Section B. above.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

- (2) The permittee shall maintain records of the following information for the fixed roof tank:
  - a. the types of petroleum liquids stored in the tank; and
  - b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each petroleum liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

These records shall be maintained for at least 5 years and shall be made available to the Director or his representative upon verbal or written request.

e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(1) above:

- a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
  - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.
- (4) If the permittee places, stores, or holds, in the fixed roof tanks, any petroleum liquid with a true vapor pressure that is greater than 3.5 kPa (0.5076 psia) per §60.110b(b) or 1.52 psia per OAC rule 3745-21-09(L)(1), the permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of becoming aware of the occurrence:
- a. the date that such petroleum liquid was first stored in the tank;
  - b. the date removed (if removed);
  - c. the total gallons throughput of each petroleum liquid exceeding this vapor pressure; and
  - d. the proposed method of compliance shall be included in the report
- f) Testing Requirements
- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
- a. Emissions Limitation:  
  
VOC emissions shall not exceed 5.94 tons per year.  
  
Applicable Compliance Method:  
  
Compliance with the tons per year emissions limitation and throughput of 35,111,931 gal/yr for this unit shall be determined using records required in the Sections B.4.a) and b) in the Facility Wide Terms and Conditions and Section C.d)1.d)(2) of the Emissions Unit Terms and Conditions, and in accordance with the calculation methodology provided in the permittee's application and the emissions estimation equations in AP-42 Section 7.1.3.2 (11/06) for uncontrolled losses from normal tank operations (maximum potential based on loading rack synthetic minor restriction per the permittee's application), physical characteristics of the tanks, liquid asphalt properties and site-specific weather condition information.  
  
If required, volatile organic compound emissions shall be determined according to test Method 25 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.



b. Emissions Limitation:

PE shall not exceed 1.68 tons per year.

Applicable Compliance Method

Compliance with the annual emissions limitation shall be determined by multiplying the tons per year VOC emissions (as determined in f)(1)a., above) by the appropriate scaling factor to convert the calculated emission rates for VOC to emission rates for PM. The scaling factors were determined using literature values relevant to the asphalt industry based on historic PM/VOC partitioning data for asphalt storage tanks (as provided in the permittee's application from guidance outlined in Estimates of Air Emissions from Asphalt Storage Tanks and Truck Loading, Table 4 (David C. Trumbore, Environmental Progress, Vol. 18, No. 4)), where particulate is approximately 22% of the hydrocarbon fume and VOCs are 78%. Compliance with the annual emissions limitation shall be demonstrated by the following equations:

Normal tank operations:

$$X = (\text{annual VOC emissions} / 0.78) * 0.22$$

c. Emission Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.

Applicable Compliance Method

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

g) Miscellaneous Requirements

- (1) None.

**3. Emissions Unit Group - Liquid Asphalt Storage Tanks: T004 and T005**

<b>EU ID</b>	<b>Operations, Property and/or Equipment Description</b>
T004	840,000 GALLON ASPHALT STORAGE TANKS
T005	840,000 GALLON ASPHALT STORAGE TANK

a) 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. b)(1)e.

b) Applicable Emissions Limitations and/or Control Requirements

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

	<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
a.	OAC rule 3745-31-05(A)(3)	<p>Volatile organic compound (VOC) emissions shall not exceed 2.01 tons per year.</p> <p>Particulate emissions (PE) shall not exceed 0.57 ton per year.</p> <p>Visible PE from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.</p>
b.	OAC rule 3745-17-07(A)	<p>Visible PE from the stack serving this emissions unit shall not exceed 20% opacity as a six-minute average, except as provided by the rule.</p> <p>This PE limitation is less stringent than the limitation listed under OAC rule 3745-31-05(A)(3).</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rule 3745-17-11(B) (Table 1)	PE shall not exceed 10.69 pounds per hour.  This PE limitation is less stringent than the limitation listed under OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-21-09(L)(3)	See b)(2)a. and d)(2) below.
e.	OAC rule 3745-31-05(D) (Synthetic Minor to avoid Title V applicability)	See Section B. above.
f.	OAC rule 3745-31-05(F) (Voluntary Restriction)	See Section B. above.
g.	40 CFR, Part 60, Subpart Kb	This emissions unit is exempt from this rule per 40 CFR 60.110b because this storage vessel has a capacity greater than or equal to 151 m <sup>3</sup> (39,890 gallons) and storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals (0.5076 psia).  See b)(2)b. below.

(2) Additional Terms and Conditions

- a. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid that, as stored, has a true vapor pressure greater than 3.5 kPa (0.5076 psia) per §60.110b(b) or 1.52 psia per OAC rule 3745-21-09(L)(1), unless the tank is equipped with an internal floating roof or equivalent control approved by the Director (the appropriate Ohio EPA district office or local air agency) prior to storing a petroleum liquid with a higher vapor pressure.
- b. The asphalt stored in the liquid asphalt storage tanks is maintained at a maximum temperature of 300° F and has a maximum true vapor pressure less than 3.5 kPa (0.5076 psia); therefore, the requirements of these rules do not apply.

c) Operational Restrictions

- (1) See Section B. above.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

- (2) The permittee shall maintain records of the following information for the fixed roof tank:
  - a. the types of petroleum liquids stored in the tank; and
  - b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each petroleum liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

These records shall be maintained for at least 5 years and shall be made available to the Director or his representative upon verbal or written request.

e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(1) above:
  - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and

- b. any corrective actions taken to minimize or eliminate the visible particulate emissions.
- (4) If the permittee places, stores, or holds, in the fixed roof tanks, any petroleum liquid with a true vapor pressure that is greater than 3.5 kPa (0.5076 psia) per §60.110b(b) or 1.52 psia per OAC rule 3745-21-09(L)(1), the permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of becoming aware of the occurrence:
- a. the date that such petroleum liquid was first stored in the tank;
  - b. the date removed (if removed);
  - c. the total gallons throughput of each petroleum liquid exceeding this vapor pressure; and
  - d. the proposed method of compliance shall be included in the report
- f) Testing Requirements
- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
- a. Emissions Limitation:  
  
VOC emissions shall not exceed 2.01 tons per year.  
  
Applicable Compliance Method:  
  
Compliance with the tons per year emissions limitation and throughput of 8,777,983 gal/yr for this unit shall be determined using records required in the Sections B.4.a) and b) in the Facility Wide Terms and Conditions and Section C.d)1.d)(2) of the Emissions Unit Terms and Conditions, and in accordance with the calculation methodology provided in the permittee's application and the emissions estimation equations in AP-42 Section 7.1.3.2 (11/06) for uncontrolled losses from normal tank operations (maximum potential based on loading rack synthetic minor restriction per the permittee's application), physical characteristics of the tanks, liquid asphalt properties and site-specific weather condition information.  
  
If required, volatile organic compound emissions shall be determined according to test Method 25 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.
  - b. Emissions Limitation:  
  
PE shall not exceed 0.57 ton per year.



Applicable Compliance Method

Compliance with the annual emissions limitation shall be determined by multiplying the tons per year VOC emissions (as determined in f)(1)a., above) by the appropriate scaling factor to convert the calculated emission rates for VOC to emission rates for PM. The scaling factors were determined using literature values relevant to the asphalt industry based on historic PM/VOC portioning data for asphalt storage tanks (as provided in the permittee's application from guidance outlined in Estimates of Air Emissions from Asphalt Storage Tanks and Truck Loading, Table 4 (David C. Trumbore, Environmental Progress, Vol. 18, No. 4)), where particulate is approximately 22% of the hydrocarbon fume and VOCs are 78%. Compliance with the annual emissions limitation shall be demonstrated by the following equations:

Normal tank operations:

$$X = (\text{annual VOC emissions} / 0.78) * 0.22$$

c. Emission Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.

Applicable Compliance Method

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

g) Miscellaneous Requirements

(1) None.



**4. T006, Liquid Asphalt Storage Tank**

**Operations, Property and/or Equipment Description:**

6.25 Million Gallon Asphalt Storage tank.

a) 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. b)(1)e.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	<p>Volatile organic compound (VOC) emissions shall not exceed 10.21 tons per year.</p> <p>Particulate emissions (PE) shall not exceed 2.88 tons per year.</p> <p>Visible PE from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.</p> <p>Submerged filling required. Tank will be equipped with a carbon adsorber to control odors.</p> <p>See B.4.c) above.</p>
b.	OAC rule 3745-17-07(A)	Visible PE from the stack serving this emissions unit shall not exceed 20%



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		opacity as a six-minute average, except as provided by the rule.  This PE limitation is less stringent than the limitation listed under OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-11(B) (Table 1)	This PE limitation is less stringent than the limitation listed under OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-21-09(L)(3)	See b)(2)b. and d)(2) below.
e.	OAC rule 3745-31-05(D) (Synthetic Minor to avoid Title V applicability)	See Section B. above.
f.	40 CFR, Part 60, Subpart Kb	This emissions unit is exempt from this rule per 40 CFR 60.110b because this storage vessel has a capacity greater than or equal to 151 m <sup>3</sup> (39,890 gallons) and storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals (0.5076 psia).  See b)(2)c. below..

(2) Additional Terms and Conditions

- a. All of the VOC emissions from this emissions unit shall be vented to the/a carbon adsorber that shall meet the operational, monitoring, and record keeping requirements of this permit, when the emissions unit is in operation.
- b. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid that, as stored, has a true vapor pressure greater than 3.5 kPa (0.5076 psia) per §60.110b(b) or 1.52 psia per OAC rule 3745-21-09(L)(1), unless the tank is equipped with an internal floating roof or equivalent control approved by the Director (the appropriate Ohio EPA district office or local air agency) prior to storing a petroleum liquid with a higher vapor pressure.
- c. The asphalt stored in the liquid asphalt storage tanks is maintained at a maximum temperature of 300° F and has a maximum true vapor pressure less than 3.5 kPa (0.5076 psia); therefore, the requirements of these rules do not apply.

c) Operational Restrictions

- (1) See Section B.3.a) above.

d) Monitoring and/or Recordkeeping Requirements

- (1) See Section B.4.a), b) and c) above.
- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emissions incident; and
  - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

- (3) The permittee shall maintain records of the following information for the fixed roof tank:
  - a. the types of petroleum liquids stored in the tank; and
  - b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each petroleum liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

These records shall be maintained for at least 5 years and shall be made available to the Director or his representative upon verbal or written request.

- (4) The permittee shall collect and record the following information each day the carbon adsorber is required to demonstrate compliance with the restriction contained in this permit:
  - a. The permittee shall properly operate and maintain the carbon adsorber, according to the manufacturer's specifications, to control the odors.

- b. The permittee shall monitor for breakthrough from the carbon filter associated with this emissions unit on a daily basis beginning after installation of each new carbon filter. Monitoring shall be conducted by olfactory means, and the permittee shall replace the carbon filter within twenty-four (24) hours upon detection of breakthrough.
- c. The permittee shall maintain a supply of fresh carbon filters (i.e., at least two (2) fresh carbon filters) at the facility.
- d. The permittee shall maintain records of dates and times when the carbon adsorber is monitored, when breakthrough is measured, and shall record the date and time when the existing carbon in the control device is replaced with fresh carbon.

These records shall be maintained at the facility for a period of 5 years.

e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) The permittee shall submit quarterly deviation (excursion) reports that identify:
  - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:  
  
all days during which the charcoal filter serving this emissions unit is not used
  - b. the probable cause of each deviation (excursion);
  - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
  - d. the magnitude and duration of each deviation (excursion).
- (4) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(1) above:
  - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and

- b. any corrective actions taken to minimize or eliminate the visible particulate emissions.
- (5) If the permittee places, stores, or holds, in the fixed roof tanks, any petroleum liquid with a true vapor pressure that is greater than 3.5 kPa (0.5076 psia) per §60.110b(b) or 1.52 psia per OAC rule 3745-21-09(L)(1), the permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of becoming aware of the occurrence:
- a. the date that such petroleum liquid was first stored in the tank;
  - b. the date removed (if removed);
  - c. the total gallons throughput of each petroleum liquid exceeding this vapor pressure; and
  - d. the proposed method of compliance shall be included in the report
- f) Testing Requirements
- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
- a. Emissions Limitation:  
  
VOC emissions shall not exceed 10.21 tons per year.  
  
Applicable Compliance Method:  
  
Compliance with the tons per year emissions limitation and throughput of 26,333,948 gal/yr for this unit shall be determined using records required in the Sections B.4.a) and b) in the Facility Wide Terms and Conditions and Section C.d)1.d)(2) of the Emissions Unit Terms and Conditions, and in accordance with the calculation methodology provided in the permittee's application and the emissions estimation equations in AP-42 Section 7.1.3.2 (11/06) for uncontrolled losses from normal tank operations (maximum potential based on loading rack synthetic minor restriction per the permittee's application), physical characteristics of the tanks, liquid asphalt properties and site-specific weather condition information.  
  
If required, volatile organic compound emissions shall be determined according to test Method 25 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.



b. Emissions Limitation:

PE shall not exceed 2.88 tons per year.

Applicable Compliance Method

Compliance with the annual emissions limitation shall be determined by multiplying the tons per year VOC emissions (as determined in f)(1)a., above) by the appropriate scaling factor to convert the calculated emission rates for VOC to emission rates for PM. The scaling factors were determined using literature values relevant to the asphalt industry based on historic PM/VOC partitioning data for asphalt storage tanks (as provided in the permittee's application from guidance outlined in Estimates of Air Emissions from Asphalt Storage Tanks and Truck Loading, Table 4 (David C. Trumbore, Environmental Progress, Vol. 18, No. 4)), where particulate is approximately 22% of the hydrocarbon fume and VOCs are 78%. Compliance with the annual emissions limitation shall be demonstrated by the following equations:

Normal tank operations:

$$X = (\text{annual VOC emissions} / 0.78) * 0.22$$

c. Emission Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.

Applicable Compliance Method

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

g) Miscellaneous Requirements

(1) None.

**5. T007, Liquid Asphalt Storage Tank**

**Operations, Property and/or Equipment Description:**

6.30 Million Gallon Asphalt Storage tank.

- a) 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. b)(1)e.
- b) Applicable Emissions Limitations and/or Control Requirements
  - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	<p>Volatile organic compound (VOC) emissions shall not exceed 10.21 tons per year.</p> <p>Particulate emissions (PE) shall not exceed 2.88 tons per year.</p> <p>Visible PE from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.</p> <p>Submerged filling required. Tank will be equipped with a carbon adsorber to control odors.</p> <p>See B.4.c) above.</p>
b.	OAC rule 3745-17-07(A)	Visible PE from the stack serving this emissions unit shall not exceed 20%

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		opacity as a six-minute average, except as provided by the rule.  This PE limitation is less stringent than the limitation listed under OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-11(B) (Table 1)	This PE limitation is less stringent than the limitation listed under OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-21-09(L)(3)	See b)(2)b. and d)(2) below.
e.	OAC rule 3745-31-05(D) (Synthetic Minor to avoid Title V applicability)	See Section B. above.
f.	40 CFR, Part 60, Subpart Kb	This emissions unit is exempt from this rule per 40 CFR 60.110b because this storage vessel has a capacity greater than or equal to 151 m <sup>3</sup> (39,890 gallons) and storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals (0.5076 psia).  See b)(2)c. below..

(2) Additional Terms and Conditions

- a. All of the VOC emissions from this emissions unit shall be vented to the/a carbon adsorber that shall meet the operational, monitoring, and record keeping requirements of this permit, when the emissions unit is in operation.
- b. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid that, as stored, has a true vapor pressure greater than 3.5 kPa (0.5076 psia) per §60.110b(b) or 1.52 psia per OAC rule 3745-21-09(L)(1), unless the tank is equipped with an internal floating roof or equivalent control approved by the Director (the appropriate Ohio EPA district office or local air agency) prior to storing a petroleum liquid with a higher vapor pressure.
- c. The asphalt stored in the liquid asphalt storage tanks is maintained at a maximum temperature of 300° F and has a maximum true vapor pressure less than 3.5 kPa (0.5076 psia); therefore, the requirements of these rules do not apply.

c) Operational Restrictions

- (1) See Section B.3.a) above.

d) Monitoring and/or Recordkeeping Requirements

- (1) See Section B.4.a), b) and c) above.
- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emissions incident; and
  - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

- (3) The permittee shall maintain records of the following information for the fixed roof tank:
  - a. the types of petroleum liquids stored in the tank; and
  - b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each petroleum liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

These records shall be maintained for at least 5 years and shall be made available to the Director or his representative upon verbal or written request.

- (4) The permittee shall collect and record the following information each day the carbon adsorber is required to demonstrate compliance with the restriction contained in this permit:
  - a. The permittee shall properly operate and maintain the carbon adsorber, according to the manufacturer's specifications, to control the odors.

- b. The permittee shall monitor for breakthrough from the carbon filter associated with this emissions unit on a daily basis beginning after installation of each new carbon filter. Monitoring shall be conducted by olfactory means, and the permittee shall replace the carbon filter within twenty-four (24) hours upon detection of breakthrough.
- c. The permittee shall maintain a supply of fresh carbon filters (i.e., at least two (2) fresh carbon filters) at the facility.
- d. The permittee shall maintain records of dates and times when the carbon adsorber is monitored, when breakthrough is measured, and shall record the date and time when the existing carbon in the control device is replaced with fresh carbon.

These records shall be maintained at the facility for a period of 5 years.

e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) The permittee shall submit quarterly deviation (excursion) reports that identify:
  - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:  
  
all days during which the charcoal filter serving this emissions unit is not used
  - b. the probable cause of each deviation (excursion);
  - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
  - d. the magnitude and duration of each deviation (excursion).
- (4) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(1) above:
  - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and

- b. any corrective actions taken to minimize or eliminate the visible particulate emissions.
- (5) If the permittee places, stores, or holds, in the fixed roof tanks, any petroleum liquid with a true vapor pressure that is greater than 3.5 kPa (0.5076 psia) per §60.110b(b) or 1.52 psia per OAC rule 3745-21-09(L)(1), the permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of becoming aware of the occurrence:
- a. the date that such petroleum liquid was first stored in the tank;
  - b. the date removed (if removed);
  - c. the total gallons throughput of each petroleum liquid exceeding this vapor pressure; and
  - d. the proposed method of compliance shall be included in the report
- f) Testing Requirements
- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
- a. Emissions Limitation:  
  
VOC emissions shall not exceed 10.21 tons per year.  
  
Applicable Compliance Method:  
  
Compliance with the tons per year emissions limitation and throughput of 26,333,948 gal/yr for this unit shall be determined using records required in the Sections B.4.a) and b) in the Facility Wide Terms and Conditions and Section C.d)1.d)(2) of the Emissions Unit Terms and Conditions, and in accordance with the calculation methodology provided in the permittee's application and the emissions estimation equations in AP-42 Section 7.1.3.2 (11/06) for uncontrolled losses from normal tank operations (maximum potential based on loading rack synthetic minor restriction per the permittee's application), physical characteristics of the tanks, liquid asphalt properties and site-specific weather condition information.  
  
If required, volatile organic compound emissions shall be determined according to test Method 25 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.
  - b. Emissions Limitation:  
  
PE shall not exceed 2.88 tons per year.



Applicable Compliance Method

Compliance with the annual emissions limitation shall be determined by multiplying the tons per year VOC emissions (as determined in f)(1)a., above) by the appropriate scaling factor to convert the calculated emission rates for VOC to emission rates for PM. The scaling factors were determined using literature values relevant to the asphalt industry based on historic PM/VOC portioning data for asphalt storage tanks (as provided in the permittee's application from guidance outlined in Estimates of Air Emissions from Asphalt Storage Tanks and Truck Loading, Table 4 (David C. Trumbore, Environmental Progress, Vol. 18, No. 4)), where particulate is approximately 22% of the hydrocarbon fume and VOCs are 78%. Compliance with the annual emissions limitation shall be demonstrated by the following equations:

Normal tank operations:

$$X = (\text{annual VOC emissions} / 0.78) * 0.22$$

c. Emission Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.

Applicable Compliance Method

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

g) Miscellaneous Requirements

- (1) None.

**6. T010, Liquid Asphalt Storage Tank**

**Operations, Property and/or Equipment Description:**

2.25 million gallon fixed roof asphalt cement storage tank.

a) 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. b)(1)e.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	<p>Volatile organic compound (VOC) emissions shall not exceed 3.55 tons per year.</p> <p>Particulate emissions (PE) shall not exceed 1.0 tons per year.</p> <p>Visible PE from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.</p>
b.	OAC rule 3745-17-07(A)	<p>Visible PE from the stack serving this emissions unit shall not exceed 20% opacity as a six-minute average, except as provided by the rule.</p> <p>This PE limitation is less stringent than the limitation listed under OAC rule 3745-31-05(A)(3).</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rule 3745-17-11(B) (Table 1)	This PE limitation is less stringent than the limitation listed under OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-21-09(L)(3)	See b)(2)a. and d)(2) below.
e.	OAC rule 3745-31-05(D) (Synthetic Minor to avoid Title V applicability)	See Section B. above.
f.	OAC rule 3745-31-05(F) (Voluntary Restriction)	See Section B. above.
g.	40 CFR, Part 60, Subpart Kb	This emissions unit is exempt from this rule per 40 CFR 60.110b because this storage vessel has a capacity greater than or equal to 151 m <sup>3</sup> (39,890 gallons) and storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals (0.5076 psia).  See b)(2)b. below.

(2) Additional Terms and Conditions

- a. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid that, as stored, has a true vapor pressure greater than 3.5 kPa (0.5076 psia) per §60.110b(b) or 1.52 psia per OAC rule 3745-21-09(L)(1), unless the tank is equipped with an internal floating roof or equivalent control approved by the Director (the appropriate Ohio EPA district office or local air agency) prior to storing a petroleum liquid with a higher vapor pressure.
- b. The asphalt stored in the liquid asphalt storage tanks is maintained at a maximum temperature of 300° F and has a maximum true vapor pressure less than 3.5 kPa (0.5076 psia); therefore, the requirements of these rules do not apply.

c) Operational Restrictions

- (1) See Section B. above.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;

- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

- (2) The permittee shall maintain records of the following information for the fixed roof tank:
  - a. the types of petroleum liquids stored in the tank; and
  - b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each petroleum liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

These records shall be maintained for at least 5 years and shall be made available to the Director or his representative upon verbal or written request.

e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(1) above:
  - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
  - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

- (4) If the permittee places, stores, or holds, in the fixed roof tanks, any petroleum liquid with a true vapor pressure that is greater than 3.5 kPa (0.5076 psia) per §60.110b(b) or 1.52 psia per OAC rule 3745-21-09(L)(1), the permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of becoming aware of the occurrence:
- a. the date that such petroleum liquid was first stored in the tank;
  - b. the date removed (if removed);
  - c. the total gallons throughput of each petroleum liquid exceeding this vapor pressure; and
  - d. the proposed method of compliance shall be included in the report
- f) Testing Requirements
- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
- a. Emissions Limitation:  
  
VOC emissions shall not exceed 3.55 tons per year.  
  
Applicable Compliance Method:  
  
Compliance with the tons per year emissions limitation and throughput of 8,777,983 gal/yr for this unit shall be determined using records required in the Sections B.4.a) and b) in the Facility Wide Terms and Conditions and Section C.d)1.d)(2) of the Emissions Unit Terms and Conditions, and in accordance with the calculation methodology provided in the permittee's application and the emissions estimation equations in AP-42 Section 7.1.3.2 (11/06) for uncontrolled losses from normal tank operations (maximum potential based on loading rack synthetic minor restriction per the permittee's application), physical characteristics of the tanks, liquid asphalt properties and site-specific weather condition information.  
  
If required, volatile organic compound emissions shall be determined according to test Method 25 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.
  - b. Emissions Limitation:  
  
PE shall not exceed 1.0 tons per year.



Applicable Compliance Method

Compliance with the annual emissions limitation shall be determined by multiplying the tons per year VOC emissions (as determined in f)(1)a., above) by the appropriate scaling factor to convert the calculated emission rates for VOC to emission rates for PM. The scaling factors were determined using literature values relevant to the asphalt industry based on historic PM/VOC portioning data for asphalt storage tanks (as provided in the permittee's application from guidance outlined in Estimates of Air Emissions from Asphalt Storage Tanks and Truck Loading, Table 4 (David C. Trumbore, Environmental Progress, Vol. 18, No. 4)), where particulate is approximately 22% of the hydrocarbon fume and VOCs are 78%. Compliance with the annual emissions limitation shall be demonstrated by the following equations:

Normal tank operations:

$$X = (\text{annual VOC emissions} / 0.78) * 0.22$$

c. Emission Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.

Applicable Compliance Method

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

g) Miscellaneous Requirements

- (1) None.

**7. Emissions Unit Group - Liquid Asphalt Storage Tanks: T011, T012 and T013**

<b>EU ID</b>	<b>Operations, Property and/or Equipment Description</b>
T011	7.14 Million Gallon Asphalt Storage Tank
T012	7.14 Million Gallon Asphalt Storage Tank
T013	7.14 Million Gallon Asphalt Storage Tank

a) 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. b)(1)e.

b) Applicable Emissions Limitations and/or Control Requirements

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

	<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
a.	OAC rule 3745-31-05(A)(3)	<p>Volatile organic compound (VOC) emissions shall not exceed 11.32 tons per year.</p> <p>Particulate emissions (PE) shall not exceed 3.19 tons per year.</p> <p>Visible PE from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.</p>
b.	OAC rule 3745-17-07(A)	<p>Visible PE from the stack serving this emissions unit shall not exceed 20% opacity as a six-minute average, except as provided by the rule.</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		This PE limitation is less stringent than the limitation listed under OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-11(B) (Table 1)	This PE limitation is less stringent than the limitation listed under OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-21-09(L)(3)	See b)(2)a. and d)(2) below.
e.	OAC rule 3745-31-05(D) (Synthetic Minor to avoid Title V applicability)	See Section B. above.
f.	OAC rule 3745-31-05(F) (Voluntary Restriction)	See Section B. above.
g.	40 CFR, Part 60, Subpart Kb	This emissions unit is exempt from this rule per 40 CFR 60.110b because this storage vessel has a capacity greater than or equal to 151 m <sup>3</sup> (39,890 gallons) and storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals (0.5076 psia).  See b)(2)b. below.

(2) Additional Terms and Conditions

- a. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid that, as stored, has a true vapor pressure greater than 3.5 kPa (0.5076 psia) per §60.110b(b) or 1.52 psia per OAC rule 3745-21-09(L)(1), unless the tank is equipped with an internal floating roof or equivalent control approved by the Director (the appropriate Ohio EPA district office or local air agency) prior to storing a petroleum liquid with a higher vapor pressure.
- b. The asphalt stored in the liquid asphalt storage tanks is maintained at a maximum temperature of 300° F and has a maximum true vapor pressure less than 3.5 kPa (0.5076 psia); therefore, the requirements of these rules do not apply.

c) Operational Restrictions

- (1) See Section B. above.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be

noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

- (2) The permittee shall maintain records of the following information for the fixed roof tank:
  - a. the types of petroleum liquids stored in the tank; and
  - b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each petroleum liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

These records shall be maintained for at least 5 years and shall be made available to the Director or his representative upon verbal or written request.

e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(1) above:

- a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
  - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.
- (4) If the permittee places, stores, or holds, in the fixed roof tanks, any petroleum liquid with a true vapor pressure that is greater than 3.5 kPa (0.5076 psia) per §60.110b(b) or 1.52 psia per OAC rule 3745-21-09(L)(1), the permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of becoming aware of the occurrence:
- a. the date that such petroleum liquid was first stored in the tank;
  - b. the date removed (if removed);
  - c. the total gallons throughput of each petroleum liquid exceeding this vapor pressure; and
  - d. the proposed method of compliance shall be included in the report
- f) Testing Requirements
- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
- a. Emissions Limitation:  
  
VOC emissions shall not exceed 11.32 tons per year.  
  
Applicable Compliance Method:  
  
Compliance with the tons per year emissions limitation and throughput of 26,333,948 gal/yr for this unit shall be determined using records required in the Sections B.4.a) and b) in the Facility Wide Terms and Conditions and Section C.d)1.d)(2) of the Emissions Unit Terms and Conditions, and in accordance with the calculation methodology provided in the permittee's application and the emissions estimation equations in AP-42 Section 7.1.3.2 (11/06) for uncontrolled losses from normal tank operations (maximum potential based on loading rack synthetic minor restriction per the permittee's application), physical characteristics of the tanks, liquid asphalt properties and site-specific weather condition information.  
  
If required, volatile organic compound emissions shall be determined according to test Method 25 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.



b. Emissions Limitation:

PE shall not exceed 3.19 tons per year.

Applicable Compliance Method

Compliance with the annual emissions limitation shall be determined by multiplying the tons per year VOC emissions (as determined in f)(1)a., above) by the appropriate scaling factor to convert the calculated emission rates for VOC to emission rates for PM. The scaling factors were determined using literature values relevant to the asphalt industry based on historic PM/VOC partitioning data for asphalt storage tanks (as provided in the permittee's application from guidance outlined in Estimates of Air Emissions from Asphalt Storage Tanks and Truck Loading, Table 4 (David C. Trumbore, Environmental Progress, Vol. 18, No. 4)), where particulate is approximately 22% of the hydrocarbon fume and VOCs are 78%. Compliance with the annual emissions limitation shall be demonstrated by the following equations:

Normal tank operations:

$$X = (\text{annual VOC emissions} / 0.78) * 0.22$$

c. Emission Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.

Applicable Compliance Method

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

g) Miscellaneous Requirements

- (1) None.