Ohio Environmental Protection Agency
John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

Certified Mail

3/22/2012

Beth Mowrey
SHELLY MATERIALS PLANT #43
PO Box 266
Thornville, OH 43076

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

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 0701000068
Permit Number: 07-00580
Permit Type: OAC Chapter 3745-31 Modification
County: Adams

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

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

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

If you have any questions, please contact Portsmouth City Health Dept., Air Pollution Unit at (740)353-5156or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. This permit can be accessed electronically on the DAPCWeb page,www.epa.ohio.gov/dapc, by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: Portsmouth

Response to Comments

Facility ID:	0701000068
Facility Name:	SHELLY MATERIALS PLANT #43
Facility Description:	200 Tph Asphalt batch plant
Facility Address:	848 Plum Run Rd Peebles, OH 45660 Adams County
Permit:	07-00580, Permit-To-Install and Operate - OAC Chapter 3745-31 Modification
A public notice for the draft permit issuance was published in the Ohio EPA Weekly Review and appeared in the The Peoples Defender on 11/23/2011. The comment period ended on 12/23/2011.	
Hearing date (if held)	**N/A**
Hearing Public Notice Date (if different from draft public notice)	

The following comments were received during the comment period specified. Ohio EPA reviewed and considered all comments received during the public comment period. By law, Ohio EPA has authority to consider specific issues related to protection of the environment and public health. Often, public concerns fall outside the scope of that authority. For example, concerns about zoning issues are addressed at the local level. Ohio EPA may respond to those concerns in this document by identifying another government agency with more direct authority over the issue.

In an effort to help you review this document, the questions are grouped by topic and organized in a consistent format. PDF copies of the original comments in the format submitted are available upon request.

1. Topic: Authorization page 1 of 30. "Permit Description: 200 TPH Hot Mix Asphalt Batch Plant controlled by a baghouse. Ch. 31 Modification to change emission limits for Asphalt Batch plant (P901) based on stack test data. Also, Shelly proposes to use asphalt shingles as fuel mixed with virgin materials not to exceed 50%."

a. Comment: Shelly is requesting that 'shingles as a fuel mixed with virgin materials'…is removed and reworded to reflect that Shingles are raw material product not a fuel blend.

b. Response: The permit terms will be revised.

2. Topic: <u>Applicable Emissions Limitations/Control Measures: page 11 and 12 of 30.</u>
Shelly is requesting Ohio EPA to clarify and provide it's determination for splitting SO2, NOx, VOC, CO, and PM/PM10 emissions into two separate short term emission limitation?

a. Comment: With respect to the above comments for SO2, NOx, VOC, CO and PM/PM10 and emission limits. Shelly has reviewed some permits that only have one emission factor per pollutant, even if multiple fuels are being utilized. Example:13-04806 PTI#13-18-27-0383 states the following: 'In addition to coal, this emission unit also uses re-refined used #4 fuel oil and/or natural gas as backup fuels.' '2.b. with the exception of OC/VOC emissions, the emission limits established above are based on burning coal which is the worst case fuel that generates the highest emissions. The OC/VOC emission limit was established based on burning natural gas

which results in the highest emission rate. Shelly requests clarification as to why Ohio EPA is requiring Shelly to have multiple short term limits.

b. Response: Permit to Install 07-00530, issued 4/14/2004, established separate short-term emission limits for each fuel. In reviewing several other issued asphalt batch plant permits issued throughout the State, most had separate emission limits for specific fuels.

3. Topic: Applicable Emissions Limitations/Control Measures: page 12 of 30. Shelly is requesting Ohio EPA's determination and calculation of the CO and VOC emission limitations?

a. Comment: Shelly has requested 33.18 lbs/hr, this permit does not reflect Shelly's request. Shelly also commented via email on 02/27/12 that the CO short term limit be the same for all fuels.

b. Response: The limits of the permit will be revised to reflect Shelly's request.

4. Topic: Applicable Emissions Limitations/Control Measures, Stack Emissions: Shelly is requesting how Ohio EPA determined the annual limitations for VOC.

a. Comment: Shelly requested in the application the following annual emissions: VOC -33.18 tpy, this permit does not reflect Shelly's request.

b. Response: See 3.b. response above.

5. Topic: Emissions Unit Terms and Conditions Emission Unit P901 (2) Additional Terms and Conditions d)(5) and (6) page 18 of 30.

a. Comment: Shelly's comment to (5) and (6) is this language requires an inspection of something that has visible emission limitations. To required corrective actions and duration of the emissions is overly restrictive and burdensome when the operation is allowed visible emissions. Shelly requests that 'abnormal' visible emissions is included to clarify that only those emissions associated with a malfunction or deviation shall be corrected and documented.

b. Response: This is boiler plate language for asphalt batch plant permits and will remain unchanged.

6. Topic: Emission Unit Terms and Conditions Emission Unit P901 (2) Additional Terms and Conditions e)(4) page 22 of 30.

a. Comment: Shelly is requesting to remove semi-annual reporting of used oil shipment documentation to quarterly reporting. This will help Shelly maintain an easy compliance schedule of submitting required reports.

b. Response: The permit terms will be revised to quarterly.

7. Topic: Emission Unit Terms and Conditions Emission Unit P901 (2) Additional Terms and Conditions f)(2)a. page 26 of 30.

a. Comment: Shelly is requesting some clarification on the testing requirements. First, Shelly commented above about the emissions calculations and how Ohio EPA determined the short term and annual emission limits for all pollutants except for VOC. Second, Shelly understands

that a compliance test must be done when switching to a secondary fuel. Would switching from on-spec used oil to natural gas trigger a compliance test?

b. Response: See answer in 3.b. above. The permit will be revised to clarify that if a switch from a dirtier fuel to a cleaner fuel takes place, or should the agency have acceptable results of a recent (within the last 5 years) stack test then the Portsmouth Local Air Agency may not require a test for a fuel switch.

8. Topic: Emission Unit Terms and Conditions Emission Unit P901 (2) Additional Terms and Conditions f)(2) b,e,g,h . page 26-27 of 30.

a. Comment: Shelly found several typos where Northeast District Office has been listed as the permitting district.

b. Response: The permit will be revised to correct the typos.

9. Emission Unit Terms and Conditions Emission Unit P901 (2) Additional Terms and Conditions f)(2)a. page 26 of 30.

a. Comment: Shelly is requesting Ohio EPA to clarify and provide it's determination for burner tuning.

b. Response: It has been Ohio EPA's policy to issue asphalt batch plant permits with the subsequent burner tuner language along with the burner tuning form and in review of recently issued permits this office found the language and form in most issued permits.

Ohio | Environmental Protection Agency

FINAL

Division of Air Pollution Control
Permit-to-Install and Operate
for
SHELLY MATERIALS PLANT #43

Facility ID:	0701000068
Permit Number:	07-00580
Permit Type:	OAC Chapter 3745-31 Modification
Issued:	3/22/2012
Effective:	3/22/2012
Expiration:	3/22/2017

Ohio Environmental Protection Agency

Division of Air Pollution Control
Permit-to-Install and Operate
for
SHELLY MATERIALS PLANT #43

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Authorization

Facility ID:	0701000068
Application Number(s):	A0007372
Permit Number:	07-00580
Permit Description:	200 TPH Hot Mix Asphalt Batch Plant controlled with a baghouse. CH. 31 Modification to change emission limits for Asphalt Batch plant (P901) based on stack test data and to allow the use of asphalt shingles as a raw material in the hot mix asphalt plant.
Permit Type:	OAC Chapter 3745-31 Modification
Permit Fee:	$1,250.00
Issue Date:	3/22/2012
Effective Date:	3/22/2012
Expiration Date:	3/22/2017

Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

SHELLY MATERIALS PLANT #43
848 Plum Run Rd
Peebles, OH 45660

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

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Portsmouth City Health Dept., Air Pollution Unit
605 Washington Street
3rd Floor
Portsmouth, OH 45662
(740)353-5156

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

Scott J. Nally
Director

Authorization (continued)

Permit Number: 07-00580
Permit Description: 200 TPH Hot Mix Asphalt Batch Plant controlled with a baghouse. CH. 31 Modification to change emission limits for Asphalt Batch plant (P901) based on stack test data and to allow the use of asphalt shingles as a raw material in the hot mix asphalt plant.

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

Emissions Unit ID:	**P901**
Company Equipment ID:	200 TPH Hot Mix Asphalt Batch Plant Plant
Superseded Permit Number:	07-00530
General Permit Category and Type:	Not Applicable

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. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement.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 takenby 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 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 Portsmouth City Health Dept., Air Pollution Unit 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[1] 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 emissions 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.

[1]Permittees that use Ohio EPA's "Air Services" can mark the affected emissions unit(s) as "permanently shutdown" in the facility profile along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).

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.

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) None.

C. Emissions Unit Terms and Conditions

1. P901, 200 TPH Hot Mix Asphalt Batch Plant Plant

Operations, Property and/or Equipment Description:

200 TPH hot mix asphalt batch plant controlled with a baghouse. Ch. 31 Modification to increase emissions based on results of the most recent stack test and to allow the use of shingles as a raw material in the hot mix asphalt plant

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. d)(6), d)(7), d)(8) and e)(5)

(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)b, c)(2), d)(1) and e)(1)

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) (PTI 07-00530 issued 04/06/2006)	**<u>BaghouseStack Emissions</u>** Sulfur dioxide (SO_2) emissions shall not exceed 59.8 pounds per hour while burning on-spec used oil or number 2 fuel oil. SO_2 emissions shall not exceed 0.92 pound per hour while burning natural gas. Nitrogen oxide (NO_x) emissions shall not exceed 28.0 pounds per hour while burning on-spec used oil or number 2 fuel oil NO_x emissions shall not exceed 5.0 pounds per hour while burning natural

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		gas. Volatile organic compounds (VOC) emissions shall not exceed 34.0 pounds per hour while burning on-spec used oil or number 2 fuel oil. VOC emissions shall not exceed 1.64 pounds per hour while burning natural gas. Carbon monoxide (CO) emissions shall not exceed 80.0 pounds per hour while burning on-spec used oil or number 2 fuel oil. CO emissions shall not exceed 80.0 pounds per hour while burning natural gas. Particulate matter/particulate matter less than 10 microns in diameter (PM/PM_{10}) shall not exceed 5.0 pounds per hour while burning on-spec used oil or number 2 fuel oil. PM/PM_{10}emissions shall not exceed 5.0 pounds per hour while burning natural gas. See b)(2)a for emission control measures. See b(2)b. **<u>Aggregate storage bins, cold aggregate elevatoremissions</u>** Visible emissions of fugitive dust shall be less than or equal to 10% opacity as a 3-minute average. Fugitive PM emissions shall not exceed 1.38 pounds per hour while burning on-spec used oil, number 2 fuel oil or natural gas.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		Fugitive PM_{10} emissions shall not exceed 0.66 pound per hour while burning on-spec used oil, number 2 fuel oil or natural gas. The drop height of the front end loader bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the elevator loading area. The aggregate loaded into the storage bins shall have a moisture content sufficient to eliminate the visible emissions of fugitive dust from the conveyors and all transfer points to the dryer. The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart I and OAC rule 3745-31-05(D).
b.	OAC rule 3745-31-05(D)	SO2 emissions shall not exceed 59.8 tons per rolling, 12 month period. NO_x emissions shall not exceed 28.0 tons per rolling, 12 month period. VOC emissions shall not exceed 34.0 tons per rolling, 12 month period. CO emissions shall not exceed 80.0 tons per rolling, 12 month period. PM/PM_{10} emissions shall not exceed 5.0 tons per rolling, 12 month period. PM (fugitive) emissions shall not exceed 0.90 ton per rolling, 12 month period. PM_{10} (fugitive) emissions shall not exceed 0.43 ton per rolling, 12 month period.
c.	40 CFR Part 60, Subpart I	PE from the stack shall not exceed 0.04 grain/dscf. The emissions unit shall not discharge into the atmosphere any stack gases

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		which exhibit 20% opacity or greater.
d.	OAC rule 3745-17-07(A)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60, Subpart I.
e.	OAC rule 3745-17-11(B)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
f.	OAC rule 3745-18-06(E)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

a. The emissions from this emissions unit shall be vented to the baghouse at all times the emissions unit is in operation.

b. Each shipment of oil burned in this emissions unit shall be "on-specification" (on-spec) oil and shall meet the used oil specifications contained in OAC rule 3745-279-11. The permittee shall determine that the used fuel oilmeets these specifications by performing analyses or obtaining copies of analyses or other information from the supplier documenting that the used fuel oil does not exceed (except for flash point which shall not fall below) the following limitations:

Contaminant/Property	**Allowable Specifications**
arsenic	5 ppm, maximum
cadmium	2 ppm, maximum
chromium	10 ppm, maximum
total halogens	less than 1,000 ppm; or 4,000 ppm maximum if the presumption that the used oil contains hazardous waste is rebutted, as described below
lead	100 ppm, maximum
flash point	100°F, minimum

and shall also not exceed the following maximum PCB and mercury limitations nor fall below the following heating value:

heat content	135,000 Btu/gallon, minimum
PCB's	less than 50 ppm
mercury	1 ppm, maximum

Used oil containing 1,000 ppm or greater total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under paragraph (B)(1) of rule 3745-279-10 of the Administrative Code. The permittee may receive and burn used oil equaling or exceeding 1,000 ppm total halogens, but less than 4,000 ppm, only if the permittee has successfully demonstrated, pursuant to OAC rule 3745-279-63,that the used oil does not contain a listed hazardous waste, by either acquiring and maintaining source process information which demonstrates that the used oil was contaminated by halogenated constituents that would not be listed hazardous waste or by demonstrating that the used oil does not contain significant concentrations of halogens by acquiring and maintaining representative analytical data. Acceptable analytical test protocols that can be used to analyze used oil for halogenated hazardous constituents include SW-846 Test Methods 9075, 9076, and 9077.*

If analytical results demonstrate that used oil containing 1,000 ppm or more total halogens, but less than 4,000 total halogens, does not contain greater than 100 ppm of any individual halogenated hazardous constituent found in the F001 and F002 listings in OAC rule 3745-51-31 and there is no information suggesting that any other halogenated hazardous constituent (e.g., chlorinated pesticides) has come in contact with the oil, then the presumption that the oil contains hazardous waste has been successfully rebutted.** The rebuttable presumption does not apply to either metal working oils/fluids containing chlorinated paraffins, if processed through a tolling arrangement as described in OAC rule 3745-279-24(C), or used oils contaminated with chlorofluorocarbons removed from refrigeration units.

The burning of used oil not meeting the above limitations is prohibited in this emissions unit and the fuel oil analyses shall document compliance with each limitation before it is burned. The management and burning of used oil is subject to the Standards for the Management of Used Oil, OAC Chapter 3745-279, and the permittee shall document and assure that used oils burned in this emissions unit meet all of the applicable requirements of this Chapter.If the used oil analyses shows total halogens of 1,000 ppm or greater, the permittee shall obtain and maintain all the necessary records to successfully rebut the presumption that the used oil contains or has been mixed with a listed hazardous waste in accordance with this permit.

*EPA publication SW-846, 3rd (or most current) edition, is available from the Government Printing Office, P.O. Box 371954, Pittsburgh, PA 15250-7954; 202/512-1800, document number 955-001-00000-1.

**DHWM policy documented in "Used Oil Burners - New Guidance for Rebuttable Presumption", published April 2008 or most current policy

c. All number 2 fuel oil and on-spec used oil burned in this emissions unit shall have a sulfur content equal to or less than 0.5%, by weight. Used oil, number 2 fuel oil and natural gas are the only fuels employed.

c) Operational Restrictions

(1) The pressure drop across the baghouse shall be maintained within the range of 0.5 to 8.0 inches of water while the emissions unit is in operation.

(2) The maximum annual asphalt production rate for this emissions unit shall not exceed 400,000, based upon a rolling, 12 month summation of the production rates.

(3) The permittee may not receive or burn any used oil which does not meet the standards in OAC rule 3745-279-11 and the specifications listed in this permit without first obtaining a permit-to-install or permit to install/operate that authorizes the burning of off-specification used oil. The burning of off-specification used oil, subject to OAC rule 3745-279-60 through 67, is prohibited as a fuel in this emissions unit.

(4) The permittee may substitute reclaimed asphalt pavement (RAP) and/or asphalt shingles in the raw material feed mix in amounts not to exceed 50 per cent of all aggregate materials introduced, based on a monthly average of all aggregate materials.

Asphalt shingles removed from buildings (tear-off material) may be used only if it has been determined that they do not contain asbestos. Verification that the shingles do not contain asbestos can either be done by actual testing of a representative sample of the shingles, or by verification from the shingle manufacturer that the shingles do not contain asbestos. Records shall be kept documenting the asbestos verification of any shingles used in the feed mix consistent with the language requirements in the standard terms and conditions.

(5) The maximum hourly production rate for emissions unit P901 shall not exceed 200 tons per hour. This emissions unit was derated from 275 to 200 tons per hour in PTI 07-00530, issued final on April 15, 2004.

(6) The permittee shall operate and maintain the fuel burner in accordance with the manufacturer's recommendations to ensure efficient combustion of the fuel(s) and to ensure compliance with the applicable emission limitations for VOC, CO and NO_x. The permittee shall submit a copy of all *Burner Tuning Reporting Form for Asphalt Concrete Plants* forms produced during the past calendar year to the appropriate Ohio EPA District Office or local air agency responsible for the permitting of the facility with the PER.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall receive and maintain the chemical analyses from the supplier/marketer for each shipment of used oil burned in this emissions unit (or if the oil

is generated on site, the permittee shall conduct the chemical analyses), which shall contain the following information:

a. the date the used oil was received at the facility and the amount received;

b. the name, address, and U.S. EPA identification number (if applicable) of the generator, transporter, processor/refiner, supplier, and/or marketer;

c. the results of the following chemical analyses, demonstrating that the used oil meets the standards in OAC rule 3745-279-11:

   i. arsenic content, in ppm;

   ii. the cadmium content, in ppm;

   iii. the chromium content, in ppm;

   iv. the lead content, in ppm;

   v. total halogens, in ppm; and

   vi. the flash point;

d. where the chemical analysis shows a total halogen content between 1,000 ppm, and below 4,000 ppm, the successful demonstration for the rebuttal of the presumption that the used oil contains or has been mixed with a listed hazardous waste, as described in OAC rule 3745-279-63(C); and

e. the results of the analyses demonstrating that the used oil meets the heating value and the mercury and PCB limitations contained in this permit.

Each analysis shall be kept in a readily accessible location for a period of not less than 5 years* following the receipt of each shipment of used oil and shall be made available to the Ohio EPA Division of Hazardous Waste Management and/or the Division of Air Pollution Control(the appropriate Ohio EPA District Office or local air agency) upon verbal or written request. Any authorized representative of the Ohio EPA may sample or require sampling of any used oil shipments received, stored, or burned by/at this facility for periodic detailed chemical analyses through an independent laboratory.

*The Division of Air Pollution Control requires these records to be maintained for 5 years.

(2) The permittee shall maintain monthly records of the following information:

a. the total asphalt production for each month;

b. the total asphalt produced for each fuel type for each month;

c. the rolling, 12 month summation of the total asphalt production and the asphalt production by fuel type, calculated by adding the current month's asphalt production to the asphalt production for the preceding eleven calendar months;

d. the rolling, 12-month summation of the PE, SO_2, NO_x, VOC and CO emissions; and

e. the maximum percentage of RAP and/or asphalt shingles used for any mix type.

(3) For each shipment of number 2 fuel oil, and on-spec used oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.

(4) 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 emission incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item d above or continue the daily check until the incident has ended. The observer may indicate that the visible emission 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.

(5) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust (from areas other than the enclosures for the rotary drum and the hot mix asphalt elevator) 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 emission incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item d above or continue the daily check until the incident has ended. The observer may indicate that the visible emission 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.

(6) The permit to install application for this/these emissions unit(s), P901, was evaluated based on the actual materials and the design parameters of the emissions unit's(s') exhaust system, as specified by the permittee. The "Toxic Air Contaminant Statute", ORC 3704.03(F), was applied to this/these emissions unit(s) for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant(s) emitted at over one ton per year using an air dispersion model such as SCREEN3, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled "Review of New Sources of Air Toxic Emissions, Option A", as follows:

a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, for each toxic compound(s) emitted from the emissions unit(s), (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):

i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; or

ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.

b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).

c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., "**X**" hours per day and "**Y**" days per week, from that of 8 hours per day and 5 days per week. The resulting calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):

TLV/10 x 8/X x 5/Y = 4 TLV/XY = MAGLC

d. The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year) or "worst case" toxic contaminant(s):

Toxic Contaminant: Heptane

TLV (mg/m3): 1639.26

Maximum Hourly Emission Rate (lbs/hr): 1.88

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 148

MAGLC (ug/m3): 39030

The permittee, has demonstrated that emissions of Heptane, from emissions unit(s) P901, is calculated to be less than eighty per cent of the maximum acceptable ground level concentration (MAGLC); any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F).

(7) Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration", the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:

a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and

c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Toxic Air Contaminant Statute" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or

process operation, where compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), has been documented. If the change(s) meet(s) the definition of a "modification", the permittee shall apply for and obtain a final PTIO prior to the change. The Director may consider any significant departure from the operations of the emissions unit, described in the permit application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level concentration; and he/she may require the permittee to submit a permit application for the increased emissions.

(8) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F):

a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);

b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F);

c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and

d. the documentation of the initial evaluation of compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit(s) or the materials applied.

(9) While performing each burner tuning, the permittee shall record the results of the burner tuning using the *Burner Tuning Reporting Form for Asphalt Concrete Plants* form (as found in g)(1)). An alternative form may be used upon approval of the appropriate Ohio EPA District Office or local air agency.

(10) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on a daily basis.

e) Reporting Requirements

(1) 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:

i. all exceedances of the rolling, 12-month asphalt production limitation;

ii. all exceedances of the rolling, 12-month total PE, SO_2, NO_x, VOC and CO emission limitations;

iii. all exceedances of the sulfur content limitations for No. 2 fuel oil and on spec used oil specifications;

iv. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the acceptable range;

v. any period of time (start time and date, and end time and date) when the emissions unit was in operation and the process emissions were not vented to the baghouse.

b. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and

c. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, thepermittee 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 the 31st of January (covering October to December), the 30th of April (covering January to March), the 31st of July (covering April to June), and the 31st of October (covering July to September), unless an alternative schedule has been established and approved by the Portsmouth Local Air Agency.

(2) Annual Permit Evaluation Report (PER)forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director 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 12-months for each air contaminant source identified in this permit.

(3) The permittee shall identify in the annual permit evaluation report the following information concerning the quality of used oil burned in this emissions unit:

a. any exceedance of the used oil standards in OAC rule 3745-279-11;

b. any occasion where used oil containing 1,000 ppm or more total halogens was burned prior to receiving information demonstrating a successful rebuttal of the presumption that the used oil contains or has been mixed with a listed hazardous waste;

c. any exceedance of the limitations for mercury and/or PCBs; and

d. any deviation from the minimum heat content of 135,000 Btu/gallon.

(4) Where the analytical results for any shipment of used oil burned in this emissions unit establish that the used oil contains total halogens greater than 1,000 ppm, but less than 4,000 ppm, the results of the analysis for total halogens (from the appropriate test Method 9075, 9076, or 9077) and the information obtained to rebut the presumption that the used oil contains or has been mixed with a listed hazardous waste shall be submitted to the Portsmouth Local Air Agency. Each rebuttal demonstration shall include:

a. the date the used oil was received;

b. the facility location or identification number where the oil was or will be burned;

c. the amount of oil in the shipment; and

d. all information, including all the analytical results, relied upon by the permittee to rebut the presumption that the used oil contains or has been mixed with a listed hazardous waste.

The rebuttal demonstrations for used oil received from October to December shall be submitted by January 31; used oil received from January to March, by April 30; used oil received from April to June, by July 31; and used oil received from July to September, by October 31.

(5) The permittee shall include any changes made to a parameter or value used in the dispersion model, that was used to demonstrate compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration, in the annual Permit Evaluation Report (PER). If no changes to the emissions, emissions unit(s), or the exhaust stack have been made, then the report shall include a statement to this effect.

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. <u>Emission Limitations</u>:

Emissions from the baghouse stack shall not exceed:

SO_2 emissions shall not exceed 59.8 pounds per hour while burning on-spec used oil or number 2 fuel oil.

SO_2 emissions shall not exceed 0.92 pound per hour while burning natural gas.

NO_x emissions shall not exceed 28.0 pounds per hour while burning on-spec used oil or number 2 fuel oil.

NO_x emissions shall not exceed 5.0 pounds per hour while burning natural gas.

VOC emissions shall not exceed 34.0 pounds per hour while burning on-spec used oil or number 2 fuel oil.

VOC emissions shall not exceed 1.64 pounds per hour while burning natural gas.

CO emissions shall not exceed 80.0 pounds per hour while burning on-spec used oil or number 2 fuel oil.

CO emissions shall not exceed 80.0 pounds per hour while burning natural gas.

PM/PM_{10} emissions shall not exceed 5.0 pounds per hour while burning on-spec used oil or number 2 fuel oil.

PM/PM_{10}emissions shall not exceed 5.0 pounds per hour while burning natural gas.

PE from the stack shall not exceed 0.04 grain/dscf.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing requirements specified in f)(2).

b. Emission Limitation:

PM/PM_{10} emissions shall not exceed 5.0 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be determined by multiplying the observed emission rate from the most recent emissions testing, in pounds of PM/PM_{10} per ton of asphalt produced for each fuel, by the actual rolling, 12 month summation of asphalt produced for each fuel, in tons per rolling, 12-month period (as derived from the records required by d)(1)), summing the results for all fuels, and then dividing by 2000 lbs/ton.

c. Emission Limitation:

VOC emissions shall not exceed 34.0 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be determined by multiplying the observed emission rate from the most recent emissions testing, in pounds of VOC per ton of asphalt produced for each fuel, by the actual rolling, 12 month summation of asphalt produced for each fuel, in tons per rolling, 12-month period (as derived from the records required by d)(1)), summing the results for all fuels, and then dividing by 2000 lbs/ton.

d. Emission Limitation:

CO emissions shall not exceed 80.0 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be determined by multiplying the observed emission rate from the most recent emissions testing, in pounds of CO per ton of asphalt produced for each fuel, by the actual rolling, 12 month summation of asphalt produced for each fuel, in tons per rolling, 12-month period (as derived from the records required by term and condition d)(1)), summing the results for all fuels, and then dividing by 2000 lbs/ton.

e. Emission Limitation:

SO_2 emissions shall not exceed 59.8 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be determined by multiplying the observed emission rate from the most recent emissions testing, in pounds of SO_2 per ton of asphalt produced for each fuel, by the actual rolling, 12 month summation of asphalt produced for each fuel, in tons per rolling, 12-month period (as derived from the records required by d)(1)), summing the results for all fuels, and then dividing by 2000 lbs/ton.

f. Emission Limitation:

NO_x emissions shall not exceed 28.0 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be determined by multiplying the observed emission rate from the most recent emissions testing, in pounds of NOx per ton of asphalt produced for each fuel, by the actual rolling, 12 month summation of asphalt produced for each fuel, in tons per rolling, 12-month period (as derived from the records required by d)(1)), summing the results for all fuels, and then dividing by 2000 lbs/ton.

g. Emission Limitation:

Visible emissions of fugitive dust shall be less than or equal to 10% opacity as a 3-minute average.

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

h. Emission Limitation:

This emissions unit shall not discharge into the atmosphere any stack gases which exhibit 20% opacity or greater as established in 40 CFR Part 60, Subpart I.

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

i. Emission Limitation:

Emissions of fugitive PM from the aggregate storage bins and cold aggregate elevator shall not exceed 1.38 lbs/hr.

Applicable Compliance Method:

Compliance with the hourly fugitive PM emission limitation shall be assumed based on multiplying the worst case AP-42 emission factor of 0.0069 lb PM/ton (Fifth Edition, Table 11.12-2 6/06) by the maximum rated capacity of P901 (200 TPH).

j. Emission Limitation:

Emissions of fugitive $PM_{10}$from the aggregate storage bins and cold aggregate elevator shall not exceed 0.66 lb/hr.

Applicable Compliance Method:

Compliance with the hourly fugitive PM_{10} emission limitation shall be assumed based on multiplying the worst case AP-42 emission factor of 0.0033 lb PM_{10}/ton (Fifth Edition, Table 11.12-2 6/06) by the maximum rated capacity of P901 (200 TPH).

k. Emission Limitation:

Emissions of fugitive PMshall not exceed 0.90 ton as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance with the annual emission limitation shall be assumed based upon the following worst case calculation, where total fugitive emissions equal the summation of the fugitives from the aggregate storage bins, cold aggregate elevator, and associated operations:

((200,000 tons of aggregate/year x 0.0069 lb PM/ton of aggregate) + (200,000 tons of sand/year x 0.0021 lb PM/ton of sand)) x 1 ton/2000 lb) = 0.9 ton

The emission factors in the above equation are derived from AP-42, Fifth Edition, Table 11.12.2 (6/06).

l. Emission Limitation:

Emissions of fugitive PM_{10}shall not exceed 0.43 ton as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance with the annual emission limitation shall be assumed based upon the following worst case calculation, where total fugitive emissions equal the summation of the fugitives from the aggregate storage bins, cold aggregate elevator, and associated operations:

((200,000 tons of aggregate/year x 0.0033 lb PM_{10}/ton of aggregate) + (200,000 tons of sand/year x 0.00099 lb PM_{10}/ton of sand)) x 1 ton/2000 lb) = 0.43 ton

The emission factors in the above equation are derived from AP-42, Fifth Edition, Table 11.12.2 (6/06).

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

a. The emission testing shall be conducted within 6 months after issuance of the permit and within 6 months prior to permit renewal.

Emissions testing for secondary fuels shall be conducted within 60 days after the switch to the secondary fuel. If a switch from a dirtier fuel to a cleaner fuel takes place, or should the agency have acceptable results of a recent (within the last 5 years) stack test then the Portsmouth Local Air Agency may not require a test for a fuel switch(See ii below).

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PM/PM_{10}, VOC, CO, NO_x and SO_2 for the primary fuel. Prior to secondary fuel emissions testing, the permittee shall consult the Portsmouth Local Air Agency to determine which pollutants should be tested.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) for:

PM/PM_{10}, Methods 1-5 of 40 CFR Part 60, Appendix A;

NO_x, Methods 1-4 and 7 or 7E of 40 CFR Part 60, Appendix A;

SO_2, Methods 1-4 and 6 or 6C of 40 CFR Part 60, Appendix A;

CO, Methods 1-4 and 10 of 40 CFR Part 60, Appendix A; and

VOC, Methods 1-4 and 25, 25A, and/or 18 of 40 CFR Part 60, Appendix A.

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

d. The VOC pounds per hour emission rate observed during the emissions test shall be calculated in accordance with OAC paragraph 3745-21-10(C)(7). In lieu of this the permittee shall convert the mass emission value from VOC as carbon to VOC using the molecular weight of propane, i.e., the VOC as carbon emission rate observed during testing shall be converted to the appropriate units by multiplying the VOC emission rate observed during testing (in lbs./hr) by 44 (propane) and dividing by 36 (3 atoms of carbon).

e. The test(s) shall be conducted while this emissions unit is operating at or near its maximum capacity and burning natural gas, number 2 fuel oil, or on-spec used oil for PE, VOC, CO, NO_x and SO_2 and employing RAP and/or asphalt shingles to verify VOC emissions, unless otherwise specified or approved by the Portsmouth Local Air Agency.

f. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Portsmouth Local Air Agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Portsmouth Local Air Agency's refusal to accept the results of the emission test(s).

g. Personnel from the Portsmouth Local Air Agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

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

(3) Burner Tuning

a. Introduction

The permittee is required to conduct periodic tuning of the asphalt plant burner. The purpose of this tuning is to ensure that the burner is adjusted properly so that air pollution emissions remain in compliance with allowable emissions rates and are minimized.

b. Qualifications for Burner Tuning

Technicians who conduct the burner tuning must be qualified to perform the expected tasks. The permittee is required to provide training to the technicians who perform the burner tuning procedure. Technicians who are qualified shall, at a minimum, have passed manufacturer's training concerning burner tuning, or have been trained by someone who has completed the manufacturer's training concerning burner tuning.

c. Portable Monitor Requirements

The permittee shall properly operate and maintain portable device(s) to monitor the concentration of NO_x, O_2 and CO in the stack exhaust gases from this emissions unit. The monitor(s) shall be capable of measuring the expected concentrations of the measured gases. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall maintain records of each portable monitoring device's calibration.

d. Burner Tuning Procedure

The first steps concerning burner tuning involve setting the pollutant baseline levels (concentrations) utilizing the portable monitor. These baselines shall be set during the initial U.S. EPA approved emissions testing that demonstrated the emissions unit was in compliance with all applicable emission limitations as described in f)(1). The baselines shall be determined for NO_x and CO. Sampling should measure the exhaust gas values exiting the dryer or the baghouse. The duration of each sample shall follow the portable monitor manufacture's recommendations. Record these values on the *Burner Tuning Reporting Form for Asphalt Concrete Plants* form (as found in g)(3)) in the "Recent Stack Test Basis Values" column.

Once the pollutant baseline levels are set, the burner shall be next tuned based on the frequency described in f)(2)e. The general procedure for tuning the burner involves the following steps:

i. Review the plant operations to ensure the plant is operating normally.

ii. Confirm that the portable monitor is calibrated per the manufacture's specifications.

iii. Using the calibrated monitor and the monitor manufacturer's recommended sampling duration, measure the stack exhaust gas values for O_2, NO_x and CO. These measurements shall be taken at the same location as the location where the baseline samples were taken. Record the values in the "Pre Tuning" results column on the *Burner Tuning Reporting Form for Asphalt Concrete Plants* form.

iv. Compare the measured stack exhaust gas values with the pollutant baseline values. If all of the measured stack exhaust gas values are equal to or less than 115 per cent of the pollutant baseline values, then it is not necessary to tune the burner. Go on to Section v. below.

The permittee shall have the burners tuned within two calendar weeks of any measured stack exhaust values greater than 115 per cent of the baseline values. Make any necessary adjustments and repairs. Repeat Sections iii. and iv. until the measured stack exhaust gas values are equal to or less than 115 per cent of the pollutant baseline values.

v. Once all of the measured stack exhaust gas values are within the 115 per cent of the pollutant baseline values, record the measured stack exhaust gas values in the "Post Tuning" results column on the *Burner Tuning Reporting Form for Asphalt Concrete Plants* form.

vi. By January 31 of each year, submit a copy of all *Burner Tuning Reporting Form for Asphalt Concrete Plants* forms produced during the past calendar year to the Portsmouth Local Air Agency.

e. Burner Tuning Frequency

The permittee shall conduct the burner tuning procedure within 20 production days after commencement of the production season in the State of Ohio. The permittee shall conduct another burner tuning procedure within 10 production days before or after June 1st of each year and within 10 production days before or after September 1st of each year. For purposes of this permit, the production season is defined as the time period between the date the first ton of asphalt is produced and the date that the last ton of asphalt is produced during the same calendar year. A burner tuning is not required if the production season ends prior to the associated tuning due date. If the baseline level testing or the initial season tuning is done within 30 days prior to June 1 or September 1, the tuning associated with that due date is not required.

In addition to the burner tuning procedure required above, the permittee shall conduct the burner tuning procedure within 20 production days from the date the facility switches to a fuel that is different than the fuel burned during the initial emissions tests that establish the pollutant baseline levels or the fuel burned during the most recent burner tuning procedure, whichever is later.

(4) Used Oil Analysis

The metal content for arsenic, cadmium, chromium, lead and mercury shall be analyzed using a “Total Analysis” or “Total Metals” testing methodology. The metal contents shall not be analyzed using a leachate procedure such as the “Toxicity Characteristic Leaching Procedure” or “Extraction Procedure Toxicity Test”. Chapter 2 of “Test Methods for Evaluating Soilid waste, Physical/Chemical Methods (SW-846, 3rd Edition, most current update) shall be used fro selecting the appropriate test methods for used oil analyses.

g) Miscellaneous Requirements

(1) Burner Tuning Form (see next page)

Ohio Environmental Protection Agency

Final Permit-to-Install and Operate
SHELLY MATERIALS PLANT #43
Permit Number: 07-00580
Facility ID: 0701000068

BURNER TUNING REPORTING FORM FOR ASPHALT CONCRETE PLANTS	
Facility ID:	Tuning Date:
Legal Name:	Other Company Name (if different than legal name):
Mailing Address:	Other Company Site Address: (if different than mailing address):
City, State, Zip Code:	Other Company City, County, Zip Code:
Site Contact Person:	Site Contact Telephone Number:
Site Contact Title:	Site Contact Fax Number:
Name of company performing tuning:	Name of company performing emission monitoring:
Type of plant (ie: batch, drum mix, etc.):	Calibration date for analyzers:

Reason for Tuning: ☐ Season Initial Tuning ☐ June Tuning ☐ September Tuning ☐ Fuel Switch ☐Other (describe)

Fuel employed during tuning: ☐ Natural Gas ☐ Propane ☐ # 2 Fuel Oil ☐ # 4 Fuel Oil ☐ Used Oil ☐ Other (describe)

Tuning Results:

Parameter	Recent Stack Test Pollutant Baseline Levels[1]	Results	
		Pre Tuning	Post Tuning[3]
Fuel flow to the burner (gallon/hr) (for fuel oil and on-spec used oil)			
Fuel pressure (psi)			
For burners that require compressed air for proper operation, pressure at the burner (psi)			
Carbon Monoxide (CO) concentrations (ppm)[2]			
NOx concentrations (ppm)[2]			
Oxygen concentrations (per cent)[2]			
Asphalt Production (tons/hr)			

[1]These values are based on the results of the most recent Ohio EPA approved emissions test.
[2] Specify whether on a dry or wet basis.
[3] If the burner did not require adjusting, please record N/A in the post tuning column.

Describe in detail a list of adjustments and/or repairs made to bring the operating parameters into conformance with the manufacturers specifications. Use additional paper if necessary.

Authorized Signature: This signature shall constitute personal affirmation that all statements or assertions of fact made in this form are true and complete, comply fully with applicable state requirements, and shall subject the signatory to liability under applicable state laws forbidding false or misleading statements.

Name of Official (Printed or Typed):	Title of Official and Phone Number:
Signature of Official:	Date: