



10/15/2014

Certified Mail

MICHAEL SMALL  
Small's Sand and Gravel  
10229 KILLDUFF RD  
GAMBIER, OH 43022

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: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE  
Facility ID: 0142000058  
Permit Number: P0117152  
Permit Type: Initial Installation  
County: Knox

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) 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. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**

**How to appeal this permit**

The issuance of this PTIO 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  
77 South High Street, 17th Floor  
Columbus, OH 43215

## **How to save money, reduce pollution and reduce energy consumption**

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: [www.ohioairquality.org/clean\\_air](http://www.ohioairquality.org/clean_air)

## **How to give us feedback on your permitting experience**

Please complete a survey at [www.epa.ohio.gov/survey.aspx](http://www.epa.ohio.gov/survey.aspx) and give us feedback on your permitting experience. We value your opinion.

## **How to get an electronic copy of your permit**

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF 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.

If you have any questions, please contact Ohio EPA DAPC, Central District Office at (614)728-3778 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Erica R. Engel-Ishida, Interim Manager  
Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA-CDO



## Response to Comments

Facility ID:	0142000058
Facility Name:	Small's Sand and Gravel
Facility Description:	Construction sand and gravel production
Facility Address:	10229 KILLDUFF RD Gambier, OH 43022 Knox County
Permit:	P0117152, Permit-To-Install and Operate - Initial Installation
A public notice for the draft permit issuance was published in the Ohio EPA Weekly Review and appeared in the Mt. Vernon News on 09/09/2014. The comment period ended on 10/09/2014.	
Hearing date (if held)	
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: None**

- a. Comment: None
- b. Response: None





**FINAL**

**Division of Air Pollution Control  
Permit-to-Install and Operate  
for  
Small's Sand and Gravel**

Facility ID:	0142000058
Permit Number:	P0117152
Permit Type:	Initial Installation
Issued:	10/15/2014
Effective:	10/15/2014
Expiration:	5/8/2017





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

for  
Small's Sand and Gravel

**Table of Contents**

Authorization .....	1
A. Standard Terms and Conditions .....	3
1. What does this permit-to-install and operate ("PTIO") allow me to do?.....	4
2. Who is responsible for complying with this permit? .....	4
3. What records must I keep under this permit? .....	4
4. What are my permit fees and when do I pay them?.....	4
5. When does my PTIO expire, and when do I need to submit my renewal application? .....	4
6. What happens to this permit if my project is delayed or I do not install or modify my source? .....	5
7. What reports must I submit under this permit? .....	5
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? .....	5
9. What are my obligations when I perform scheduled maintenance on air pollution control equipment? ...	5
10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report? .....	6
11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located? .....	6
12. What happens if one or more emissions units operated under this permit is/are shut down permanently? .....	6
13. Can I transfer this permit to a new owner or operator?.....	6
14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"? .....	7
15. What happens if a portion of this permit is determined to be invalid? .....	7
B. Facility-Wide Terms and Conditions.....	8
C. Emissions Unit Terms and Conditions .....	12
1. P904, FRAP Plant.....	13





**Final Permit-to-Install and Operate**  
Small's Sand and Gravel  
**Permit Number:** P0117152  
**Facility ID:** 0142000058  
**Effective Date:** 10/15/2014

## Authorization

Facility ID: 0142000058  
Application Number(s): A0051132  
Permit Number: P0117152  
Permit Description: FEPTIO for the addition of a FRAP plant with crusher and screen and a 300 HP John Deere Tier III engine.  
Permit Type: Initial Installation  
Permit Fee: \$1,000.00  
Issue Date: 10/15/2014  
Effective Date: 10/15/2014  
Expiration Date: 5/8/2017  
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Small's Sand and Gravel  
10229 KILLDUFF RD  
Gambier, OH 43022

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

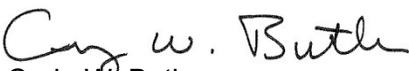
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Central District Office  
50 West Town Street, 6th Floor  
P.O. Box 1049  
Columbus, OH 43216-1049  
(614)728-3778

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



**Final Permit-to-Install and Operate**  
Small's Sand and Gravel  
**Permit Number:** P0117152  
**Facility ID:** 0142000058  
**Effective Date:** 10/15/2014

## Authorization (continued)

Permit Number: P0117152  
Permit Description: FEPTIO for the addition of a FRAP plant with crusher and screen and a 300 HP John Deere Tier III engine.

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

<b>Emissions Unit ID:</b>	<b>P904</b>
Company Equipment ID:	FRAP Plant
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



**Final Permit-to-Install and Operate**  
Small's Sand and Gravel  
**Permit Number:** P0117152  
**Facility ID:** 0142000058  
**Effective Date:** 10/15/2014

## **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 [DO/LAA] 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.



**Final Permit-to-Install and Operate**  
Small's Sand and Gravel  
**Permit Number:** P0117152  
**Facility ID:** 0142000058  
**Effective Date:** 10/15/2014

## **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) The emissions of total Nitrogen Oxides (NOx) from all emissions units, P002, P003, P004, P005, P006, P007, P008, P009, P010, P011, P012, P013, P903 and P904 shall not exceed 99 tons per year, based upon a rolling, 12-month summation of the emissions.
    - (2) The emissions of total NOx from all internal combustion engines, P002, P003, P004, P005, P006, P007, P008, P009, P010, P011, P012, P013, and P904 shall not exceed 86.6 tons per year, based upon a rolling, 12-month summation of the emissions.
    - (3) The maximum annual total fuel usage from all internal combustion engines, P002, P003, P004, P005, P006, P007, P008, P009, P010, P011, P012, P013, and P904 shall not exceed 375,182 gallons based upon a rolling, 12-month summation of the fuel usage figures.
  - c) **Monitoring and Recordkeeping Requirements**
    - (1) NOx emission shall be calculated from all emissions units P002, P003, P004, P005, P006, P007, P008, P009, P010, P011, P012, P013, P903, and P904 per rolling 12-month period.
    - (2) NOx emission shall be calculated from all internal combustion engines, P002, P003, P004, P005, P006, P007, P008, P009, P010, P011, P012, P013, and P904 per rolling 12-month period.
    - (3) Fuel usage shall be calculated from all internal combustion engines, P002, P003, P004, P005, P006, P007, P008, P009, P010, P011, P012, P013, and P904 per rolling 12-month period.
  - d) **Reporting Requirements**
    - (1) The permittee shall identify in the quarterly deviation report any exceedance of the facility wide diesel fuel oil usage restriction, to include the amount of diesel fuel usage recorded for each such rolling 12-month period and any exceedance of the facility wide NOx emission limitation, to the amount of NOx emissions recorded for each such rolling 12-month period.



e) 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. Emission Limitations:

The emissions of total Nitrogen Oxides (NO<sub>x</sub>) from all emissions units P002, P003, P004, P005, P006, P007, P008, P009, P010, P011, P012, P013, P903 and P904 shall not exceed 99 tons per year, based upon a rolling, 12-month summation of the emissions.

Applicable Compliance Method:

Compliance with the annual NO<sub>x</sub> emissions limitation shall be demonstrated by a emission calculation utilizing the appropriate fuel heat content of natural gas and/or #2 diesel oil, the controlled emission factor listed in AP-42 and the fuel usage per rolling, 12-month summation as calculated in c)(3).

b. Emission Limitations:

NO<sub>x</sub> emission calculations shall be maintained for all diesel engine at the facility and document the NO<sub>x</sub> emissions to be less than 86.6 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with the annual NO<sub>x</sub> emissions limitation shall be demonstrated by a emission calculation utilizing the fuel heat content of #2 diesel oil, the controlled emission factor listed in AP-42 Section 3 for large stationary diesel fuel engines and the fuel usage per rolling, 12-month summation as calculated in c)(3).

c. Emission Limitations:

The maximum annual total fuel usage for all internal combustion engines, P002, P003, P004, P005, P006, P007, P008, P009, P010, P011, P012, P013, and P904 shall not exceed 375,182 gallons based upon a rolling, 12-month summation of the fuel usage figures.

Applicable Compliance Method:

Compliance with the fuel usage limitation shall be demonstrated by the record keeping requirements as specified in c)(3).

2. The Ohio EPA has determined that this facility may be subject to the requirements of an area source MACT/GACT rule that the Ohio EPA does not have the delegated authority to implement. Although Ohio EPA has determined that an area source MACT (also known as the GACT) may apply, at this time Ohio EPA does not have the authority to enforce this standard. Instead, U.S. EPA has the authority to enforce this standard. Please be advised that all requirements associated with these rules are in effect



**Final Permit-to-Install and Operate**

Small's Sand and Gravel

**Permit Number:** P0117152

**Facility ID:** 0142000058

**Effective Date:** 10/15/2014

and are enforceable by U.S. EPA. For more information on the area source rules, please refer to the following U.S. EPA website: <http://www.epa.gov/ttn/atw/area/arearules.html>



**Final Permit-to-Install and Operate**  
Small's Sand and Gravel  
**Permit Number:** P0117152  
**Facility ID:** 0142000058  
**Effective Date:** 10/15/2014

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



**1. P904, FRAP Plant**

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

Frap Plant, crusher, screen, conveyors and 300 HP John Deere Tier III engine.

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)d.

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.	ORC 3704.03(T)	Emissions of nitrogen oxide (NO <sub>x</sub> ) shall not exceed 1.10 tons per month averaged over a twelve-month rolling period.
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	Emissions shall not exceed:  0.14 ton of particulate material less than 10 microns in diameter (PM <sub>10</sub> ) per month averaged over a twelve-month rolling period.  0.14 ton of particulate material less than 2.5 microns in diameter (PM <sub>2.5</sub> ) per month averaged over a twelve-month rolling period.  0.07 ton of sulfur dioxide (SO <sub>2</sub> ) per month averaged over a twelve-month rolling period.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		0.09 ton of volatile organic compounds (VOC) per month averaged over a twelve-month rolling period.  0.24 ton of carbon monoxide (CO) per month averaged over a twelve-month rolling period.  See b)(2)a.
c.	OAC rule 3745-31-05, as effective 12/01/06	See b)(2)b.
d.	OAC rule 3745-31-05(D), synthetic minor to avoid Title V	See B.1.b)(1), B.1.b)(2) and B.1.b)(3), above.
e.	OAC rule 3745-17-07(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR, Part 60, Subpart OOO.  See b)(2)c.
f.	40 CFR, Part 60, Subpart OOO (40 CFR 60.670-60.676)  [In accordance with 40 CFR 60.670(a), this emissions unit is comprised of crushers, screening operations, conveyors, and storage bins that are affected facilities subject to the emission limitations and requirements specified in this section.]	Visible emission restrictions See b)(2)d.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.



- b. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.
  - i. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM<sub>2.5</sub>, PM<sub>10</sub>, CO, SO<sub>2</sub>, and VOC emissions from this air contaminant source since the potential to emit for PM<sub>2.5</sub>, PM<sub>10</sub>, CO, SO<sub>2</sub>, and VOC is less than 10 tons per year.
- c. The visible emission limitations from 40 CFR Part 60, Subpart OOO (Table 3, below) have been determined to be equivalent to or more stringent than the visible emission limitations established pursuant to OAC rule 3745-17-07(B). It should be noted that the material handling/processing activity of truck unloading to a feeder is not regulated under 40 CFR Part 60, Subpart OOO and is subject to the visible particulate emission limitation of 20% opacity as a 3-minute average under OAC rule 3745-17-07(B)(1) when located within an "Appendix A" area of OAC rule 3745-17-08.
- d. The permittee shall not cause to be discharged into the atmosphere, fugitive dust emissions which exhibit greater than the following:

**Table 3 of Subpart OOO of Part 60**

Material Handling/Processing Operation	Opacity limit
wet screening and screening of saturated materials	no visible emissions
conveyor transfer points of saturated materials	no visible emissions
transfer points on belt conveyors or any other affected facility in a building	7%, as a 6-minute average
<b>For affected facilities (as defined in 60.670 and 60.671) that commenced construction, modification, or reconstruction after August 31, 1983, but before April 22, 2008:</b>	
Crushing/with no capture system	15%, as a 6-minute average
conveyor transfer points feeding and exiting crushers	15%, as a 6-minute average
grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations, and any other affected facility as defined by this rule	10%, as a 6-minute average
<b>For affected facilities (as defined in 60.670 and 60.671) that commenced construction, modification, or reconstruction on or after April 22,</b>	



<b>2008:</b>	
crushers with no capture system	12 %, as a 6-minute average
grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations, and any other affected facility as defined by this rule	7%, as a 6-minute average

e. The maximum annual material throughput (based on potential) for this emission unit shall not exceed 400,000 tons.

c) Operational Restrictions

(1) None

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the amount of material processed through this emission unit in (a.) tons per month, and (b.) total tons, to date, for the calendar year.
- (2) Except as otherwise provided in this section, for aggregate processing operations that are not adequately enclosed, the permittee shall perform visible emission inspections of such operations during representative, normal operating conditions in accordance with the following minimum frequencies:

<b>Aggregate Processing Operation</b>	<b>Minimum Inspection Frequency</b>
each loading operation (truck dumping into a feeder, hopper, or crusher)	once per day of operation
each plant conveyor & transfer point	once per day of operation
each screen	once per day of operation
each crusher	once per day of operation

- (3) The permittee shall maintain daily records of the following information:
  - a. the date and reason any required inspection was not performed;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
  - c. the dates the control measure(s) was (were) implemented; and



- d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in (d) shall be kept separately for each aggregate processing operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

- (4) When using a wet suppression system to control fugitive dust, the permittee shall perform monthly periodic inspections for each piece of equipment constructed, modified, or reconstructed on or after April 22, 2008, to check that water is flowing to the discharge spray nozzles. The permittee must initiate corrective action within 24 hours and complete corrective action as expediently as practical if water is not flowing properly during an inspection of the water spray nozzles. The permittee must record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in the logbook required under d)(6).
- (5) If the permittee, meeting the requirements of d(4) above, ceases operation of the water sprays or is using a control mechanism other than water sprays to reduce fugitive dust emissions during the monthly inspection (for example, water from recent rainfall), the logbook entry required under d)(6) must specify the control mechanism being used instead of the water sprays.
- (6) The permittee must record each periodic inspection required under d)(4) and d)(5), including dates and any corrective actions taken, in a logbook (in written or electronic format). The permittee must keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the Ohio EPA upon request.

e) Reporting Requirements

- (1) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to Ohio EPA Central District Office 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. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-



Business Center: Air Services” although PERs can be submitted via U.S. postal service or can be hand delivered.

- (3) The permittee shall identify the following information in the PER in accordance with the monitoring requirements in term numbers d)(1), (2) and (3) above:
- a. the total FRAP throughput (i.e. the amount of stone loaded into the primary feeder), in tons, for the previous calendar year.
  - b. each day during which an inspection was not performed by the required frequency; and
  - c. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

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. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere from any crusher constructed, modified, or reconstructed on or after April 22, 2008, any visible emissions of fugitive dust which exhibit greater than 12 % opacity, as a six minute average.

Applicable Compliance Method: If required, compliance shall be demonstrated using Method 9 of 40 CFR Part 60, Appendix A, and the procedures specified in 40 CFR Part 60, Subpart OOO, section 60.675.

- b. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere from any grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations that were constructed, modified, or reconstructed on or after April 22, 2008, and any transfer point or other affected facility enclosed in a building, any visible emissions of fugitive dust which exhibit greater than 7 % opacity, as a six minute average.

Applicable Compliance Method: If required, compliance shall be demonstrated using Method 9 of 40 CFR Part 60, Appendix A, and the procedures specified in 40 CFR Part 60, Subpart OOO, section 60.675.

- c. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere any visible emissions of fugitive dust from wet screening operations and subsequent transfer points that process saturated materials.

Applicable Compliance Method: If required, compliance shall be demonstrated using Method 22 of 40 CFR Part 60, Appendix A, and the procedures specified in 40 CFR Part 60, Subpart OOO, section 60.675.



- d. Emission Limitation: 0.14 ton of particulate material less than 10 microns in diameter ( $PM_{10}$ ) per month averaged over a twelve-month rolling period.

Applicable Compliance Method: The monthly  $PM_{10}$  emission limitation was established by combining the  $PM_{10}$  emissions from the material handling operations and fuel combustion where;

- i. material handling emissions were calculated by multiplying the maximum allowable plant throughput by applicable AP-42 Table 11.19.2-2 (0.00054 lb/ton from crushers, 0.00074 lb/ton from screens and wash screens and 0.000046 lb/ton from transfer points) and Table 13.2.4-1(0.0023 lb/ton from loading) emission factors;
- ii. the fuel combustion emissions were calculated by multiplying the maximum annual hours of operation by the MMBtu/hr value (0.69 MMBtu/hr) and multiplying by the AP-42, Table 3.3-1 emission factor (0.31 lb/MMBtu);
- iii. the combined result of d.i. and d.ii. is then divided by 2000 lbs/ton and divided by 12 months/year.

- e. Emission Limitation: 0.14 ton of particulate material less than 2.5 microns in diameter ( $PM_{2.5}$ ) per month averaged over a twelve-month rolling period.

Applicable Compliance Method: The monthly  $PM_{2.5}$  emission limitation was established by combining the  $PM_{2.5}$  emissions from the material handling operations and fuel combustion where;

- i. material handling emissions were calculated by multiplying the maximum allowable plant throughput by applicable AP-42 Table 11.19.2-2 (0.00054 lb/ton from crushers, 0.00074 lb/ton from screens and wash screens and 0.000046 lb/ton from transfer points) and Table 13.2.4-1(0.0023 lb/ton from loading) emission factors;
- ii. the fuel combustion emissions were calculated by multiplying the maximum annual hours of operation by the MMBtu/hr value (0.69 MMBtu/hr) and multiplying by the AP-42, Table 3.3-1 emission factor (0.31 lb/MMBtu);
- iii. the combined result of e.i. and e.ii. is then divided by 2000lbs/ton and dividing by 12 months/year.

- f. Emission Limitation: 0.07 ton of sulfur dioxide ( $SO_2$ ) per month averaged over a twelve-month rolling period.

Applicable Compliance Method: The monthly  $SO_2$  emission limitation was established by multiplying the maximum annual hours of operation by the MMBtu/hr value (0.69 MMBtu/hr) and multiplying by the AP-42, Table 3.3-1 emission factor (0.29 lb/MMBtu), then dividing by 2000 lbs/ton and dividing by 12 months/year.



- g. Emission Limitation: 0.09 ton of volatile organic compounds (VOC) per month averaged over a twelve-month rolling period.

Applicable Compliance Method: The monthly VOC emission limitation was established by multiplying the maximum annual hours of operation by the MMBtu/hr value (0.69 MMBtu/hr) and multiplying by the AP-42, Table 3.3-1 emission factor (0.35 lb/MMBtu), then dividing by 2000 lbs/ton and dividing by 12 months/year.

- h. Emission Limitation: 0.24 ton of carbon monoxide (CO) per month averaged over a twelve-month rolling period.

Applicable Compliance Method: The monthly CO emission limitation was established by multiplying the maximum annual hours of operation by the MMBtu/hr value (0.69 MMBtu/hr) and multiplying by the AP-42, Table 3.3-1 emission factor (0.95 lb/MMBtu), then dividing by 2000 lbs/ton and dividing by 12 months/year.

- i. Emission Limitation: Emissions of nitrogen oxide (NO<sub>x</sub>) shall not exceed 1.10 tons per month averaged over a twelve-month rolling period.

Applicable Compliance Method: The monthly NO<sub>x</sub> emission limitation was established by multiplying the maximum annual hours of operation by the MMBtu/hr value (0.69 MMBtu/hr) and multiplying by the AP-42, Table 3.3-1 emission factor (4.41 lbs/MMBtu), then dividing by 2000 lbs/ton and dividing by 12 months/year.

g) Miscellaneous Requirements

- (1) None.