



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

10/2/2015

Laurie Webb
Hanson Aggregates Midwest Wagner Quarry
4200 S Harding St.
Indianapolis, IN 46217

Certified Mail

No	TOXIC REVIEW
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MODELING SUBMITTED
No	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: 0322020200
Permit Number: P0119616
Permit Type: Administrative Modification
County: Erie

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

How to give us feedback on your permitting experience

Please complete a survey at 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 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, Northwest District Office at (419)352-8461 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



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

Cc: Ohio EPA-NWDO



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
Hanson Aggregates Midwest Wagner Quarry**

Facility ID:	0322020200
Permit Number:	P0119616
Permit Type:	Administrative Modification
Issued:	10/2/2015
Effective:	10/2/2015
Expiration:	9/11/2020



Division of Air Pollution Control
Permit-to-Install and Operate
for
Hanson Aggregates Midwest Wagner Quarry

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Final Permit-to-Install and Operate
Hanson Aggregates Midwest Wagner Quarry
Permit Number: P0119616
Facility ID: 0322020200
Effective Date: 10/2/2015

Authorization

Facility ID: 0322020200
Application Number(s): M0003621
Permit Number: P0119616
Permit Description: Administrative modification to correct deviation reporting requirements.
Permit Type: Administrative Modification
Permit Fee: \$0.00
Issue Date: 10/2/2015
Effective Date: 10/2/2015
Expiration Date: 9/11/2020
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Hanson Aggregates Midwest Wagner Quarry
4203 Milan Road
Sandusky, OH 44870

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

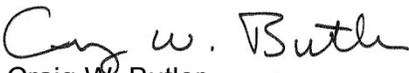
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402
(419)352-8461

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
Hanson Aggregates Midwest Wagner Quarry
Permit Number: P0119616
Facility ID: 0322020200
Effective Date: 10/2/2015

Authorization (continued)

Permit Number: P0119616

Permit Description: Administrative modification to correct deviation reporting requirements.

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:	Aggregate Processing Line
Superseded Permit Number:	P0119217
General Permit Category and Type:	Not Applicable



Final Permit-to-Install and Operate
Hanson Aggregates Midwest Wagner Quarry
Permit Number: P0119616
Facility ID: 0322020200
Effective Date: 10/2/2015

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
Hanson Aggregates Midwest Wagner Quarry
Permit Number: P0119616
Facility ID: 0322020200
Effective Date: 10/2/2015

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.
2. 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.



Final Permit-to-Install and Operate
Hanson Aggregates Midwest Wagner Quarry
Permit Number: P0119616
Facility ID: 0322020200
Effective Date: 10/2/2015

C. Emissions Unit Terms and Conditions

1. P901, Aggregate Processing Line

Operations, Property and/or Equipment Description:

aggregate processing 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. 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)g., b)(2)l., c)(1), d)(2), e)(4) and f)(7)l.

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)	24.73 tons fugitive particulate emissions (PE)/yr 8.66 tons fugitive particulate matter less than 10 microns in size (PM10)/yr See b)(2)a. through b)(2)f.
b.	40 CFR Part 60, Subpart OOO	Stack and visible particulate emission restrictions See b)(2)a. through b)(2)c. and b)(2)g.
c.	OAC rule 3745-17-11(B)	See b)(2)h.
d.	OAC rule 3745-17-07(A)	See b)(2)i.
e.	OAC rule 3745-17-08(B)	See b)(2)j.
f.	OAC rule 3745-17-07(B)	See b)(2)k.
g.	OAC rule 3745-31-05(D)	95.0 tons organic compounds (OC)/rolling 12-month period from stack emissions See b)(2)l.



(2) Additional Terms and Conditions

- a. The permittee shall employ best available technology (BAT) in this emissions unit. BAT has been determined to be the use of the control measures and visible emissions restrictions outlined in section b)(2)b., b)(2)c., and b)(2)d., compliance with 40 CFR Part 60, Subpart OOO and OAC rule 3745-31-05(D), and compliance with the following emissions limitations:

Emissions Point	Stack Particulate Emissions (PE) Limits		Stack Organic Compound (OC) Emissions Limits
	grains/dscf	tons PE/yr	lbs OC/hr
primary crusher baghouse	0.02	2.70	45.50
secondary crusher baghouse	0.02	2.70	28.33
tertiary crusher baghouse	0.02	4.06	66.95
mill #2 (small) baghouse	0.02	0.81	10.48

- b. The following aggregate processing equipment/operations are covered by this permit:

Equipment Description	Company Identification	Regulatory Applicability
Primary Crusher Feed Hopper	PCFH	OAC rule 3745-31-05(A)(3)
Telesmith HSI Primary Crusher	CR1	OAC rule 3745-31-05(A)(3)
Nordberg HP700 Secondary Crusher	CR2	40 CFR Part 60, Subpart OOO
Semco VSI Tertiary Crusher (inside mill bldg.)	CR3	OAC rule 3745-31-05(A)(3)
Screen 1 (Rip Rap Screen) Seco 6' x 14' 2-stage grizzly	SCR1	40 CFR Part 60, Subpart OOO
Screen 2 Simplicity 6' x 16' triple deck	SCR2	40 CFR Part 60, Subpart OOO
Screen 3 (inside mill bldg.) Tyler 6' x 16' triple deck	SCR3	OAC rule 3745-31-05(A)(3)
Screen 4 (inside mill bldg.) Tyler 6' x 16' triple deck	SCR4	OAC rule 3745-31-05(A)(3)
Screen 5 (inside mill bldg.) Tabor 6' x 16' triple deck	SCR5	OAC rule 3745-31-05(A)(3)
Screen 6 (inside mill bldg.) Tabor 7' x 16' triple deck	SCR6	OAC rule 3745-31-05(A)(3)
Conveyor 1 60" x 280'	C1	OAC rule 3745-31-05(A)(3)



Equipment Description	Company Identification	Regulatory Applicability
Conveyor 2 60" x 1500'	C2	OAC rule 3745-31-05(A)(3)
Conveyor 3 60" x 550'	C3	OAC rule 3745-31-05(A)(3)
Conveyor 4 48" x 110'	C4	40 CFR Part 60, Subpart 000
Conveyor 5 36" x 110'	C5	40 CFR Part 60, Subpart 000
Conveyor 6 42" x 225'	C6	40 CFR Part 60, Subpart 000
Conveyor 6A 48" x 125'	C6A	OAC rule 3745-31-05(A)(3)
Conveyor 7 42" x 125'	C7	OAC rule 3745-31-05(A)(3)
Conveyor 8 42" x 311'	C8	OAC rule 3745-31-05(A)(3)
Conveyor 8A 24" x 120'	C8A	40 CFR Part 60, Subpart 000
Conveyor 8B 24" x 100'	C8B	40 CFR Part 60, Subpart 000
Conveyor 9A 30" x 22'	C9A	40 CFR Part 60, Subpart 000
Conveyor 9 24" x 450'	C9	40 CFR Part 60, Subpart 000
Conveyor 10 24" x 120'	C10	40 CFR Part 60, Subpart 000
Conveyor 11 24" x 120'	C11	40 CFR Part 60, Subpart 000
Conveyor 12 42" x 100'	C12	40 CFR Part 60, Subpart 000
Conveyor 12A 42" x 130'	C12A	40 CFR Part 60, Subpart 000
Conveyor 13 24" x 100' (inside mill bldg.)	C13	OAC rule 3745-31-05(A)(3)
Conveyor 14 24" x 100' (inside mill bldg.)	C14	OAC rule 3745-31-05(A)(3)
Conveyor 15 42" x 90' (inside mill bldg.)	C15	OAC rule 3745-31-05(A)(3)
Conveyor 16 36" x 70' (inside mill bldg.)	C16	40 CFR Part 60, Subpart 000
Conveyor 17 24" x 300' (inside mill bldg.)	C17	40 CFR Part 60, Subpart 000
Conveyor 18 24" x 140'	C18	40 CFR Part 60, Subpart 000
Conveyor 19 24" x 55' (inside mill bldg.)	C19	OAC rule 3745-31-05(A)(3)
Conveyor 20 24" x 200'	C20	OAC rule 3745-31-05(A)(3)
Conveyor 21 24" x 120'	C21	40 CFR Part 60, Subpart 000
Conveyor 22 24" x 230' (inside mill bldg.)	C22	40 CFR Part 60, Subpart 000
Conveyor 23 24" x 120'	C23	40 CFR Part 60, Subpart 000
Conveyor 24 24" x 50' (inside mill bldg.)	C24	40 CFR Part 60, Subpart 000
Conveyor 25 18" x 135' (inside mill bldg.)	C25	40 CFR Part 60, Subpart 000



Equipment Description	Company Identification	Regulatory Applicability
Conveyor 26 24" x 396' (inside mill bldg.)	C26	40 CFR Part 60, Subpart OOO
Conveyor 27 36" x 25'	C27	40 CFR Part 60, Subpart OOO
Conveyor 28 36" x 50'	C28	40 CFR Part 60, Subpart OOO
Conveyor 29 36" x 100'	C29	OAC rule 3745-31-05(A)(3)
Conveyor 30 36" x 100'	C30	OAC rule 3745-31-05(A)(3)
Thor Stacking Conveyor 1 36" x 136'	SC1	OAC rule 3745-31-05(A)(3)
Sand Screw	SCW1	OAC rule 3745-31-05(A)(3)
#10's Material Storage Bin (inside mill bldg.)	MSB 10's	OAC rule 3745-31-05(A)(3)
#9's Material Storage Bin (inside mill bldg.)	MSB 9's	OAC rule 3745-31-05(A)(3)
#4's Material Storage Bin (inside mill bldg.)	MSB 4's	OAC rule 3745-31-05(A)(3)

- c. Visible emissions from the material processing operations shall not exceed the following opacity restrictions:

Operation	Opacity Limit*
loading (truck dumping into a feeder, hopper, or crusher)	20%, as a 3-minute average
emissions from any operations (screening, crushing, conveyor transfer points) which are captured and have a baghouse for control	7% opacity for stack emissions; 10% opacity for fugitive emissions
emissions from any operations (screening, crushing, conveyor transfer points) which are enclosed in a building	no visible emissions, except from a vent
wet screening and screening of saturated materials	no visible emissions
conveyor transfer points, except as otherwise provided	10%, as a 6-minute average
conveyor transfer points of saturated materials	no visible emissions

*See section b)(2)a. for the regulatory basis of the opacity limit.

- d. The permittee shall employ the following best available control measures for aggregate processing operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the

permittee's permit application, the permittee has committed to perform the following control measures to ensure compliance:

Operation	Control Measure(s)
loading (truck dumping into a feeder, hopper, or crusher)	maintain low drop heights
plant conveyors & transfer points	capture and control with a baghouse, or maintain low drop heights; maintain or apply sufficient water* to adequately control the fugitive dust emissions
Screening	capture and control with a baghouse, or building enclosure
crushing	capture and control with a baghouse

*except for periods when freezing temperatures prohibit use of water spray

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- e. For each material handling operation that is not adequately enclosed, the above-identified control measures shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during the operation of the material handling operations until further observation confirms that use of the control measures is unnecessary.
- f. Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05 (A)(3).
- g. The application and enforcement of the provisions of NSPS, as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements for 40 CFR Part 60 are also federally enforceable.
- h. The emission limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
- i. The emission limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3) and/or 40 CFR Part 60, Subpart OOO.
- j. This emissions unit is exempt from the requirements specified in OAC rule 3745-17-08(B), pursuant to OAC rule 3745-17-08(A)(1), because this fugitive dust source is not located within the geographical areas specified in Appendix A of rule 3745-17-08.



- k. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e), because this fugitive dust source is not located within the geographical areas specified in Appendix A of OAC rule 3745-17-08.
- l. The permittee has requested a federally enforceable limitation of 95.0 tons OC per rolling twelve month period based on aggregate type/throughput restrictions [See c)(1)], for the purpose of avoiding Title V applicability.

For the purpose of federal enforceability, limitations on OC effectively limit VOC.

c) Operational Restrictions

- (1) The maximum rolling 12-month aggregate throughput* for this emissions unit is limited by the following equation, but shall not exceed 3,283,700 tons:

$$\sum_{M=1}^{12} \sum_n [(U_n)(C_n)(1\text{ton}/2000 \text{ lbs})] \leq 95.0$$

Where,

M = the increment of the rolling 12-month period;
n = the increment of the aggregate throughput during the period;

U_n = total throughput of the individual aggregate - 1st bench, 2nd bench, 3rd bench, 4th bench, etc.

C_n = emission factor for the individual aggregate in lbs OC/ton aggregate (sum of individual emissions factors from all four baghouses)

*aggregate throughput shall be based on the aggregate throughput of the feeder

- (2) The maximum annual hours of operation shall not exceed 3,159 hours.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain daily records of the following information:
 - a. The name and identification of each individual type of aggregate processed (1st bench, 2nd bench, 3rd bench, 4th bench, etc.); and
 - b. The quantity of each individual type of aggregate processed, in tons.
- (2) The permittee shall maintain monthly records of the following information:
 - a. The quantity of all aggregate processed, in tons [summation of d)(1)b.];
 - b. The rolling 12-month summation of all aggregate processed, in tons;
 - c. The OC emissions for each individual type of aggregate processed, in tons/month, calculated as follows:

$$E_n = [(U_n)(C_n)(1\text{ton}/2000\text{ lbs})]$$

E_n = OC emissions from an individual type of aggregate

U_n = total throughput of the individual type of aggregate - 1st bench, 2nd bench, 3rd bench, 4th bench, etc.

C_n = emission factor for the individual aggregate in lbs OC/ton aggregate (sum of individual emissions factors from all four baghouses)

- d. The total OC emission rate of all aggregate processed, in tons/month, calculated as follows:

$$E_M = E_1 + E_2 + E_3 + \dots + E_n$$

Where:

E_M = Monthly OC emissions, in tons/month; and,

E_n = OC emissions from each individual aggregate processed [d)(2)c.]

- e. The rolling, 12-month OC emission rate calculated as follows:

$$E_T = E_{M1} + E_{M2} + E_{M3} + \dots + E_{M12}$$

Where:

E_T = Annual OC emissions (tons) as summed from the previous 12 months of monthly OC emissions;

E_M = Monthly OC emissions (tons/month).

- f. The total hours of operation each month;

- g. The total hours of operation, to date for the calendar year.

- (3) The permittee shall properly install, operate and maintain equipment to continuously monitor the pressure drop in inches of water across the following baghouses, during the operation of this emissions unit: the primary crusher baghouse, the secondary crusher baghouse, the tertiary crusher baghouse, and the #2 mill baghouse. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop in inches of water on a once per shift basis, for the primary crusher baghouse, the secondary crusher baghouse, the tertiary crusher baghouse, and the #2 mill baghouse.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the

investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the static pressure drop immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across each baghouse is 1.0 to 6.0 inches of water, at all times while these emissions units are in operation.

These ranges are effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to these ranges based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to these ranges will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative permit modification.

- (4) Except as otherwise provided in this section, for aggregate processing operations that are not adequately enclosed, the permittee shall perform inspections of such operations during representative, normal operating conditions in accordance with the following minimum frequencies:

Operation/Equipment	Minimum Inspection Frequency
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

The permittee shall maintain 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 required in (d)(4)d. shall be kept separately for each mineral extraction operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (2) The permittee shall identify in the annual PER the following occurrences concerning inspection and control measure requirements:
- a. Each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. Each instance when a control, measure, that was to be implemented as a result of an inspection, was not implemented.
- (3) The permittee shall submit quarterly deviation (excursion) reports that identify:
- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. The rolling, 12-month OC emissions limitation; and
 - ii. The rolling, 12-month aggregate throughput limitation.
 - b. the probable cause of each deviation (excursion);
 - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).



- (4) The permittee shall submit the following information for each piece of equipment that is replaced by a piece of equipment having the same function as the existing facility:
- a. For a conveyor belt:
 - i. The width of the existing belt being replaced, and
 - ii. The width of the replacement conveyor belt.

The notification shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the equipment replacement.

- (5) Pursuant to the general provisions of NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times for this emissions unit:
- a. Construction date (no later than 30 days after such date); and
 - b. Date of performance testing (if required, at least 30 days prior to testing)

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
Lazarus Government Center
P.O. Box 1049
Columbus, Ohio 43216-1049

and:

Ohio EPA, Northwest District Office
347 North Dunbridge Road
Bowling Green, Ohio 43402

f) Testing Requirements

- (1) The permittee shall conduct, or have conducted, emissions testing for all stack particulate emissions that are subject to 40 CFR Part 60, Subpart OOO. The permittee shall also conduct, or have conducted, visible emissions testing for all fugitive emissions points of emissions unit P901, that are subject to 40 CFR Part 60, Subpart OOO [See f)(7)g.].
- (2) Testing shall be conducted in accordance with the provisions of 40 CFR Part 60, Subpart OOO, Section 60.675.
- (3) The emissions testing shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated, by not later than 180 days after initial startup of such facility and at such other times as may be required by the Ohio Environmental Protection Agency, Division of Air Pollution Control. The emissions

testing shall be conducted to demonstrate compliance with the allowable stack particulate emissions rates and fugitive opacity limitations for particulate emissions.

- (4) The test methods and procedures outlined in 40 CFR 60.675 shall be employed to demonstrate compliance with the allowable emission limitations.
- (5) The tests shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Division of Air Pollution Control. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Division of Air Pollution Control. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the times and dates of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's air agency's refusal to accept the results of the emissions tests.
- (6) Personnel from the Ohio EPA District Office's air agency shall be permitted to witness the test, 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 unit and/or the performance of the control equipment. A comprehensive written report on the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Division of Air Pollution Control within 30 days following completion of the tests.
- (7) 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:
stack emissions with a maximum outlet concentration of 0.02 gr/dscf (0.05 g/dscm)

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with the grain loading limitation through the testing requirements contained in section f)(1) through f)(6).
 - b. Emission Limitation:
primary crusher baghouse - 2.70 tons PE/year

Applicable Compliance Method:
Compliance with the tons/yr shall be determined by multiplying the maximum outlet concentration of 0.02 grains/dscf by the maximum volumetric air flow of 10,000 acfm, and applying the appropriate conversion factors: 7000 grains/lb, 1 dscf/acfm, 60 minutes/hr, a maximum operating schedule of 3,159 hrs/yr and 1 ton/2000 lbs. Therefore, provided compliance with the grain loading limitation and annual hourly operating restriction are shown, compliance with the tons/yr limitation shall also be demonstrated.

- c. Emission Limitation:
secondary crusher baghouse - 2.70 tons PE/year

Applicable Compliance Method:

Compliance with the tons/yr shall be determined by multiplying the maximum outlet concentration of 0.02 grains/dscf by the maximum volumetric air flow of 10,000 acfm, and applying the appropriate conversion factors: 7000 grains/lb, 1 dscf/acfm, 60 minutes/hr, a maximum operating schedule of 3,159 hrs/yr and 1 ton/2000 lbs. Therefore, provided compliance with the grain loading limitation and annual hourly operating restriction are shown, compliance with the tons/yr limitation shall also be demonstrated.

- d. Emission Limitation:
tertiary crusher (mill #1) baghouse - 4.06 tons PE/year

Applicable Compliance Method:

Compliance with the tons/yr shall be determined by multiplying the maximum outlet concentration of 0.02 grains/dscf by the maximum volumetric air flow of 15,000 acfm, and applying the appropriate conversion factors: 7000 grains/lb, 1 dscf/acfm, 60 minutes/hr, a maximum operating schedule of 3,159 hrs/yr and 1 ton/2000 lbs. Therefore, provided compliance with the grain loading limitation and annual hourly operating restriction are shown, compliance with the tons/yr limitation shall also be demonstrated.

- e. Emission Limitation:
mill #2 baghouse - 0.81 ton PE/year

Applicable Compliance Method:

Compliance with the tons/yr shall be determined by multiplying the maximum outlet concentration of 0.02 grains/dscf by the maximum volumetric air flow of 3,000 acfm, and applying the appropriate conversion factors: 7000 grains/lb, 1 dscf/acfm, 60 minutes/hr, a maximum operating schedule of 3,159 hrs/yr and 1 ton/2000 lbs. Therefore, provided compliance with the grain loading limitation and annual hourly operating restriction are shown, compliance with the tons/yr limitation shall also be demonstrated.

- f. Emission Limitation:
24.73 tons fugitive PE/yr; 8.66 tons fugitive PM10/yr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the PM10 limit by multiplying a maximum annual aggregate throughput limitation of 3,283,700 by the appropriate AP-42 emission factors for PM10 from Table 11.19.2-2 (revised 8/04), and applying a 80% capture efficiency for the portion of the emissions which are controlled. Compliance with the PE limit shall be demonstrated by multiplying the PM10 limit by 2.1.

- g. Emission Limitation:
Visible PE limitations identified in sections b)(2)c.
- Applicable Compliance Method:
If required, the permittee shall demonstrate compliance through the testing requirements contained in section f)(1) through f)(6).
- h. Emission Limitation:
primary crusher baghouse - 45.50 pounds OC/hour
- Applicable Compliance Method:
The permittee may demonstrate compliance by multiplying a maximum aggregate throughput of 1300 TPH by an emissions factor of 0.035 lb OC/ton (based on a August 2005 emissions test, processing 3rd bench material). If required, compliance with the hourly OC emissions rate may be based on stack testing using the methods and procedures specified in Methods 1 - 4, and 18, 25, or 25A, as appropriate, of 40 CFR Part 60, Appendix A.
- i. Emission Limitation:
secondary crusher baghouse - 28.33 pounds OC/hour (stack + fugitive emissions)
- Applicable Compliance Method:
The permittee may demonstrate compliance by multiplying a maximum aggregate throughput of 1300 TPH by an emissions factor of 0.02179 lb OC/ton (based on a September 1999 emissions test, processing 3rd bench material). If required, compliance with the hourly OC emissions rate may be based on stack testing using the methods and procedures specified in Methods 1- 4, and 18, 25, or 25A, as appropriate, of 40 CFR Part 60, Appendix A.
- j. Emission Limitation:
tertiary crusher (mill #1) baghouse - 66.95 pounds OC/hour
- Applicable Compliance Method:
The permittee may demonstrate compliance by multiplying a maximum aggregate throughput of 1300 TPH by an emissions factor of 0.05150 lb OC/ton (based on a September 1999 emissions test, processing 3rd bench material). If required, compliance with the hourly OC emissions rate may be based on stack testing using the methods and procedures specified in Methods 1- 4, and 18, 25, or 25A, as appropriate, of 40 CFR Part 60, Appendix A.
- k. Emission Limitation:
mill #2 (small) baghouse - 10.48 pounds OC/hour
- Applicable Compliance Method:
The permittee may demonstrate compliance by multiplying a maximum aggregate throughput of 1300 TPH by an emissions factor of 0.00806 lb OC/ton (based on a September 1999 emissions test, processing 3rd bench material). If required, compliance with the hourly OC emissions rate may be based on stack



testing using the methods and procedures specified in Methods 1 - 4, and 18, 25, or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

- I. Emission Limitation:
95.0 tons OC/rolling 12-month period

Applicable Compliance Method:

The permittee shall demonstrate compliance by the monitoring and record keeping in section d)(1).

- g) Miscellaneous Requirements

- (1) None.