



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
ERIE COUNTY**

**CERTIFIED MAIL**

Street Address:

50 West Town Street, Suite 700

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 03-17009**

**Fac ID: 0322020200**

**DATE: 1/31/2008**

Hanson Aggregates Mideast, Inc. - Wagner  
Robert Snyder  
8130 Brint Road  
Sylvania, OH 43560

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging 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 Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final 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 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

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

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

CC: USEPA

NWDO



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**Permit To Install  
Terms and Conditions**

**Issue Date: 1/31/2008  
Effective Date: 1/31/2008**

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**FINAL PERMIT TO INSTALL 03-17009**

Application Number: 03-17009  
Facility ID: 0322020200  
Permit Fee: **\$1250**  
Name of Facility: Hanson Aggregates Mideast, Inc. - Wagner  
Person to Contact: Robert Snyder  
Address: 8130 Brint Road  
Sylvania, OH 43560

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**4203 Milan Road  
Sandusky, Ohio**

Description of proposed emissions unit(s):  
**Modification to aggregate processing plant**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) 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 above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

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Chris Korleski  
Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. Permit to Install General Terms and Conditions

#### 1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### 2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### 3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

#### 4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

**Hanson Aggregates Mideast, Inc. - Wagner**  
**PTI Application: 03-17009**  
**Issued: 1/31/2008**

**Facility ID: 0322020200**

the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**6. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**7. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**9. Construction of New Sources(s)**

**Hanson Aggregates Mideast, Inc. - Wagner**  
**PTI Application: 03-17009**  
**Issued: 1/31/2008**

**Facility ID: 0322020200**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

#### **10. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

#### **11. Applicability**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

#### **12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

Hanson Aggregates Mideast, Inc. - Wagner  
 PTI Application: 03-17009  
 Issued: 1/31/2008

Facility ID: 0322020200

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

**14. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

**15. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

**B. Permit to Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)  
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	10.27 stack 24.73 fugitive
PM10	5.14 stack 8.66 fugitive
VOC	95.0

**Hanson Aggregates Mideast, Inc. - Wagner**  
**PTI Application: 03-17009**  
**Issued: 1/31/2008**

**Facility ID: 0322020200**

Issued: 1/31/2008

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. Applicable Emissions Limitations and/or Control Requirements**

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

**Operations, Property, and/or Equipment - (P901) - aggregate processing plant (modification of PTI 03-13387 issued on February 25, 2003 and modified on January 1, 2004) modification to add two portable stacking conveyors and one overland conveyor, and to correct organic compound emissions limits (based on more recent stack test results)**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	See A.2.a through A.2.f  Fugitive Particulate Emissions (PE): 24.73 tons fugitive PE/yr; 8.66 tons fugitive PE10/yr
40 CFR Part 60, Subpart OOO	Stack and Visible Particulate Emissions Restrictions (see A.2.a through A.2.c, and A.2.g)
OAC rule 3745-17-11(B)	See A.2.h
OAC rule 3745-17-07(A)	See A.2.i
OAC rule 3745-17-08(B)	See A.2.j
OAC rule 3745-17-07(B)	See A.2.k
OAC rule 3745-31-05(C)	95.0 tons OC/rolling 12-month period from stack emissions (see A.2.l)

**2. Additional Terms and Conditions**

- 2.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 A.2.b, A.2.c, and A.2.d, compliance with 40 CFR Part 60, Subpart OOO and OAC rule 3745-31-05(C), and compliance with the following emissions limitations:

Emissions Point	Stack Particulate Emissions (PE) Limits	Stack Organic Compound (OC) Emissions Limits

Issued: 1/31/2008

	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

**2.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 7' 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 7' 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)
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 OOO
Conveyor 5 36" x 110'	C5	40 CFR Part 60, Subpart OOO
Conveyor 6 42" x 275'	C6	40 CFR Part 60, Subpart OOO
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 36" x 311'	C8	OAC rule 3745-31-05(A)(3)
Conveyor 8A 24" x 100'	C8A	40 CFR Part 60, Subpart OOO

Conveyor 8B	24" x 100'	C8B	40 CFR Part 60, Subpart OOO
Conveyor 9	24" x 450'	C9	40 CFR Part 60, Subpart OOO
Conveyor 10	24" x 120'	C10	40 CFR Part 60, Subpart OOO
Conveyor 11	24" x 120'	C11	40 CFR Part 60, Subpart OOO
Conveyor 12	42" x 450'	C12	40 CFR Part 60, Subpart OOO
Conveyor 12A	42" x 130'	C12A	40 CFR Part 60, Subpart OOO
Conveyor 13 (inside mill bldg.)	24" x 100'	C13	OAC rule 3745-31-05(A)(3)
Conveyor 14 (inside mill bldg.)	24" x 100'	C14	OAC rule 3745-31-05(A)(3)
Conveyor 15 (inside mill bldg.)	42" x 90'	C15	OAC rule 3745-31-05(A)(3)
Conveyor 16 (inside mill bldg.)	36" x 70'	C16	40 CFR Part 60, Subpart OOO
Conveyor 17 (inside mill bldg.)	24" x 300'	C17	40 CFR Part 60, Subpart OOO
Conveyor 18	24" x 120'	C18	40 CFR Part 60, Subpart OOO
Conveyor 19 (inside mill bldg.)	24" x 55'	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 OOO
Conveyor 22 (inside mill bldg.)	24" x 230'	C22	40 CFR Part 60, Subpart OOO
Conveyor 23	24" x 120'	C23	40 CFR Part 60, Subpart OOO
Conveyor 24 (inside mill bldg.)	24" x 40'	C24	40 CFR Part 60, Subpart OOO
Conveyor 25 (inside mill bldg.)	18" x 130'	C25	40 CFR Part 60, Subpart OOO
Conveyor 26 (inside mill bldg.)	24" x 430'	C26	40 CFR Part 60, Subpart OOO
Conveyor 26A		C26A	40 CFR Part 60, Subpart OOO
Conveyor 27		C27	40 CFR Part 60, Subpart OOO
Conveyor 28		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)

Issued: 1/31/2008

#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)

- 2.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 A.I.2.a for the regulatory basis of the opacity limit.

- 2.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

**Issued: 1/31/2008**

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.

- 2.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.
- 2.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).
- 2.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.
- 2.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).
- 2.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.
- 2.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

Emissions Unit ID: P901

dust source is not located within the geographical areas specified in Appendix A of rule 3745-17-08.

- 2.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.
- 2.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 B.1), for the purpose of avoiding Title V applicability.

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

**B. 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:

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

Where,

- M = the increment of the rolling 12-month period;
- n = the increment of the aggregate throughput during the period;
- U<sub>n</sub> = total throughput of the individual aggregate - 1st bench, 2nd bench, 3rd bench, 4th bench, etc.
- C<sub>n</sub> = 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.

**C. 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

Issued: 1/31/2008

bench, 2nd bench, 3rd bench, 4th bench, etc.);

- 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 C.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:

$$E_n = U_n \times C_n \times 1\text{ton}/2000 \text{ lbs}$$

$E_n$  = 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 (C.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

Issued: 1/31/2008

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:

<b>Operation/Equipment</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

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) 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.

#### **D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify all exceedances of the following:

Emissions Unit ID: **P901**

- a. The rolling, 12-month OC emissions limitation; and
- b. The rolling, 12-month aggregate throughput limitation.

The permittee shall submit these deviation (excursion) reports in accordance with the General Terms and Conditions of this permit.

2. The permittee shall submit annual written reports of any deviation (excursion) from the annual hours of operation limitation in B.2. If no deviations occurred during a calendar year, the permittee shall submit an annual report which states that no deviations occurred. The report shall be submitted by January 31 of each year and shall cover the previous calendar year.
3. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across each baghouse did not comply with the allowable range specified above. The permittee shall submit these deviation (excursion) reports in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit quarterly deviation (excursion) reports, in accordance with the reporting requirements of the General Terms and Conditions of this permit, that identify any of the following occurrences:
  - a. each day during which an inspection for fugitive dust emissions was not performed by the required frequency; and
  - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
5. 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.

**Issued: 1/31/2008**

6. 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

#### **E. 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 E.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.

Emissions Unit ID: P901

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 Methods Requirements: Compliance with the emission limitations in section A.1 of the terms and conditions of this permit 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 E.1. - E.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

Emissions Unit ID: **P901**

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 will be assumed.

- 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 will be assumed.

- 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 will be assumed.

- 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

**Issued: 1/31/2008**

limitation will be assumed.

- f. Emission Limitation:  
24.73 tons fugitive PM/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 may be demonstrated by multiplying the PM10 limit by 2.1.

- g. Emission Limitation:  
Visible PE limitations identified in sections A.2.c

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance through the testing requirements contained in section E.1. - E.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

Emissions Unit ID: **P901**

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.

- l. 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 C.1.

## F. Miscellaneous Requirements

None

