



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
SANDUSKY 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: 03-17296**

**Fac ID: 0372000104**

**DATE: 4/12/2007**

Woodville Enterprise, LLC  
Ginger Edmonds  
875 East Main Street  
Woodville, OH 43469

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



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**Permit To Install**

**Issue Date: 4/12/2007**

**FINAL PERMIT TO INSTALL 03-17296**

Application Number: 03-17296  
Facility ID: 0372000104  
Permit Fee: **\$1800**  
Name of Facility: Woodville Enterprise, LLC  
Person to Contact: Ginger Edmonds  
Address: 875 East Main Street  
Woodville, OH 43469

Location of proposed air contaminant source(s) [emissions unit(s)]:

**5866 County Road 123  
Woodville, Ohio**

Description of proposed emissions unit(s):

**Aggregate processing and mineral extraction operations.**

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

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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)**

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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.

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**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 (fugitive)	74.37
PM10 (fugitive)	22.61

**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 - (F003) - aggregate processing operations, including primary, secondary and tertiary crushing, screening and material handling**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	35.10 tons fugitive particulate emissions (PE)/year  13.11 tons fugitive particulate matter 10 microns or less in size (PM10)/year  best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See A.2.b through A.2.d)  visible emission restriction (See A.2.a and A.2.g)  See A.2.e
OAC rule 3745-17-07(B)	See A.2.f
OAC rule 3745-17-08(B)	See A.2.f
40 CFR, Part 60, Subpart OOO	visible emissions restrictions (See A.2.a and A.2.g)

**2. Additional Terms and Conditions**

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

Equipment Description/operation	Regulatory Basis
Truck unloading to Grizzly Feeder	OAC rule 3745-31-05
Jaw Crusher	NSPS, Subpart OOO
Symons Cone Crusher (40702)	NSPS, Subpart OOO
Tyler Scalping Screen	NSPS, Subpart OOO
Symons Cone Crusher (40703)	NSPS, Subpart OOO

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Symons Cone Crusher (40704)	NSPS, Subpart 000
East Screen (50702)	NSPS, Subpart 000
West Screen (50703)	NSPS, Subpart 000
East Screen (50705)	NSPS, Subpart 000
West Screen (50704)	NSPS, Subpart 000
Pennsylvania Impactor	NSPS, Subpart 000
Belt Conveyor (30701)	NSPS, Subpart 000
Belt Conveyor (30702)	NSPS, Subpart 000
Vibrating Screen/Feeder (20702)	NSPS, Subpart 000
Belt Conveyor (30703)	NSPS, Subpart 000
Vibrating Screen/Feeder (20703)	NSPS, Subpart 000
Belt Conveyor (30706)	NSPS, Subpart 000
Belt Conveyor (30704)	NSPS, Subpart 000
Belt Conveyor (30705)	NSPS, Subpart 000
Belt Conveyor (30710)	NSPS, Subpart 000
Vibrating Screen/Feeder (20704)	NSPS, Subpart 000
Belt Conveyor (30707)	NSPS, Subpart 000
Vibrating Screen/Feeder (20705)	NSPS, Subpart 000
Belt Conveyor (30708)	NSPS, Subpart 000
Belt Conveyor (30709)	NSPS, Subpart 000
Belt Conveyor (30711)	NSPS, Subpart 000
Belt Conveyor (30716)	NSPS, Subpart 000
Belt Conveyor (30715)	NSPS, Subpart 000
Belt Conveyor (30901A)	NSPS, Subpart 000
Belt Conveyor (30701)	NSPS, Subpart 000

- 2.b** The permittee shall employ best available control measures for this emissions unit for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permit application, the permittee has committed to perform the following control measure(s) to ensure compliance:

material handling/processing operation

control measure(s)

loading/unloading

reduced drop height, wet application, as necessary\*

crushing and screening

wet application, as necessary\*

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transfer/conveying partial and/or total enclosures,  
wet application, as necessary\*

\*In accordance with the permit application, the permittee maintains that the inherent moisture content of the material handled/processed is at a level that is more than sufficient to comply with all applicable requirements. If at any time the moisture content is not sufficient to meet the above applicable requirements, the permittee shall employ best available control measures to ensure compliance.

- 2.c** For each material handling/processing 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.d** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
- 2.e** The requirements of this rule also include compliance with 40 CFR Part 60, Subpart OOO.

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.f** The emissions limitations and control measure requirements specified by these rules are equivalent to or less stringent than the emissions limitations and control measure requirements established pursuant to NSPS Subpart OOO and OAC rule 3745-31-05.
- 2.g** The permittee shall not cause to be discharged into the atmosphere, fugitive emissions which exhibit greater than the following:

<b>Material Handling/Processing Operation</b>	<b>Opacity limit*</b>
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Emissions Unit ID: F003

truck unloading to Grizzly feeder	20%, as a 3-minute average
crushing	15%, as a 6-minute average
screening	10%, as a 6-minute average
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 feeding and exiting crushers	15%, as a 6-minute average
conveyor transfer points of saturated materials	no visible emissions

\*See section A.2.a for the regulatory basis of the opacity limit.

**B. Operational Restrictions**

1. The maximum annual material throughput for this emissions unit shall not exceed 2,500,000 tons based on the material throughput of the Grizzly feeder.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the amount of material processed through the Grizzly feeder of this emissions 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 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
each crusher	once per day of operation

3. 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

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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 section C.3.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.

**D. Reporting Requirements**

- 1. The permittee shall submit annual reports that summarize the total annual actual material throughput (of the Grizzly feeder). These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
- 2. 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 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.
- 3. 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 crusher:
    - i. the rated capacity in tons per hour of the existing facility being replaced; and
    - ii. the rated capacity in tons per hour of the replacement equipment.
  - b. for a screening operation:
    - i. the total surface area of the top screen of the existing screening operation

Emissions Unit ID: **F003**

- being replaced; and
- ii. the total surface area of the top screen of the replacement screening operation.
- c. for a conveyor belt:
  - i. the width of the existing belt being replaced; and
  - ii. the width of the replacement conveyor belt.
- d. for a storage bin;
  - i. the rated capacity in tons of the existing storage bin being replaced; and
  - ii. the rated capacity in tons of the replacement storage bins.

The notification shall be submitted to the Ohio EPA Northwest District Office within 30 days after the equipment replacement.

4. 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);
  - b. actual start-up date (within 15 days after such date); and
  - c. 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 Issuance and Data Management  
50 West Town Street, Suite 700  
P.O. Box 1049  
Columbus, Ohio 43216-1049

## **E. Testing Requirements**

1. Compliance with the emission limitations specified in section A.1 of these terms and conditions shall be determined in accordance with the following methods:

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- a. Emission Limitations:  
 35.10 tons fugitive PE/year  
 13.11 tons fugitive PM10/year

Applicable Compliance Method:

The annual particulate/PM<sub>10</sub> emission limitations were developed by multiplying the following uncontrolled emission factors from AP-42 Section 11.19.2-2 (8/04) by the annual throughput restriction of 2,500,000 tons/year, applying an 90% control efficiency to crushing, screening and conveying, then dividing by 2000 pounds/ton.

<b>Aggregate Processing Operation</b>	<b>PE Emission Factor</b>	<b>PM10 Emission Factor</b>
truck loading to feeder	0.012 lb/ton*	0.0057 lb/ton*
screening	0.0025 lb/ton processed	0.0087 lb/ton processed
crushing	0.0054 lb/ton processed	0.0024 lb/ton processed
conveyor transfer points	0.0030 lb/ton processed	0.0011 lb/ton processed

\*derived from AP-42 Section 13.2.4

Provided compliance is demonstrated with the annual throughput restriction and the requirements to apply best available control measures to prevent fugitive particulate emissions, compliance with the annual emission limitations shall be assumed.

- b. Emission Limitation:  
 Visible particulate emissions shall not exceed 20% opacity, as a 3-minute average for loading operations (truck dumping into a feeder, hopper, or crusher).

Applicable Compliance Method:

If required, compliance shall be demonstrated using Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60, Appendix A (Standards of Performance for New Stationary Sources") as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

- c. Emission Limitation:  
 The permittee shall not cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive particulate emissions which exhibit greater than 15% opacity.

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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.

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d. Emission Limitation:

The permittee shall not cause to be discharged into the atmosphere from any transfer point or screen any fugitive particulate emissions which exhibit greater than 10% opacity (unless otherwise specified).

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.

e. Emission Limitation:

The permittee shall not cause to be discharged into the atmosphere any visible particulate emissions 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.

2. The permittee shall conduct, or have conducted, visible emissions testing for all fugitive emissions points of emissions unit F003, that are subject to 40 CFR Part 60, Subpart OOO.

In accordance with 40 CFR Part 60, Subpart OOO, Section 60.675(h)(1), visible emissions testing is not required for wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to, but not including the next crusher, grinding mill or storage bin.

3. Testing shall be conducted in accordance with the provisions of 40 CFR Part 60, Subpart A, section 60.8 and 40 CFR Part 60, Subpart OOO, section 60.675.
4. The emission 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 emission testing shall be conducted to demonstrate compliance with the allowable visible emission rates for particulate emissions.

Emissions Unit ID: **F003**

5. The following test methods shall be employed to demonstrate compliance with the allowable visible emissions rates:
  - a. Method 9 of 40 CFR Part 60, Appendix A shall be used to determine opacity.
6. The tests shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Ohio EPA Northwest District Office.
7. 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 Northwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operation 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 Northwest District Office's refusal to accept the results of the emission tests.
8. Personnel from the Ohio EPA Northwest District Office 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 from the emissions unit and /or the performance of the control equipment.
9. 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 Northwest District Office within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA Northwest District Office.

**F. Miscellaneous Requirements**

None

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**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 - (F004) - mineral extraction including overburden removal, soil removal, overburden replacement, overburden loading, mineral loading, bulldozing, grading, and wind erosion**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05 (A)(3)	39.27 tons fugitive particulate emissions (PE)/year  use of best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See A.2.a through A.2.d)  opacity restrictions (See A.2.e)
OAC rule 3745-17-07(B)	See A.2.f
OAC rule 3745-17-08(B)	See A.2.f
ORC 3704.03(T)(4)	See A.2.g

**2. Additional Terms and Conditions**

- 2.a The following mineral extraction operations are covered by this permit and subject to the above mentioned requirements:

- i. drilling
- ii. blasting
- iii. overburden removal
- iv. soil removal
- v. overburden replacement
- vi. overburden loading
- vii. mineral loading
- viii. bulldozing

- ix. grading
- x. wind erosion

**2.b** The permittee shall employ best available control measures for the above-identified mineral extraction operations 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:

Mineral Extraction Operation	Control Measure(s)
overburden removal	water application, as necessary*
soil removal	water application, as necessary*
overburden replacement	water application, as necessary*
overburden loading	water application, as necessary*
mineral loading	water application, as necessary*
drilling	dust collector
blasting	precision detonation techniques, blast control plugs, use of stemming materials
bulldozing	water application, as necessary*
grading	water application, as necessary*
wind erosion	water application, as necessary*

\*In accordance with the permit application, the permittee maintains that the inherent moisture content of the material is more than sufficient to comply with all applicable requirements. If at any time the moisture content is not sufficient to meet the above applicable requirements, the permittee shall employ best available control measures to ensure compliance.

Nothing in the above table shall prohibit the permittee from employing other control measures to ensure compliance.

**2.c** For each mineral extraction operation, the above-identified control measure(s) 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(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures(s) shall continue during the mineral extraction operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

**2.d** Implementation of the above-mentioned control measure(s) in accordance with

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the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3).

- 2.e** Visible particulate emissions shall not exceed 20% opacity as a 3-minute average from the following mineral extraction operations: overburden removal, soil removal, overburden replacement, overburden loading, mineral loading, drilling, bulldozing, grading and wind erosion.
- 2.f** The emissions limitations and control measure requirements specified by these rules are equivalent to or less stringent than the emissions limitations and control measure requirements established pursuant to OAC rule 3745-31-05 (A)(3).
- 2.g** The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the emissions of particulate matter less than or equal to 10 microns in size (PM10) from this air contaminant source since the calculated annual emission rate for PM10 is less than ten tons per year taking into account the enforceable requirement to apply best available control measures to minimize or eliminate visible emissions of fugitive dust.

## **B. Operational Restrictions**

- 1. The permittee shall not exceed 48 blasts per year.
- 2. The permittee shall not exceed a mineral extraction throughput of 2,500,000 tons of limestone per year (this restriction is based on the amount of materials loaded into trucks).

## **C. Monitoring and/or Recordkeeping Requirements**

- 1. Except as otherwise provided in this section, for mineral extraction 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>Mineral Extraction Operation</b>	<b>Minimum Inspection Frequency</b>
overburden removal	once per day of operation
soil removal	once per day of operation
overburden replacement	once per day of operation

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overburden loading	once per day of operation
mineral loading	once per day of operation
blasting	once per day of operation
drilling	once per day of operation
bulldozing	once per day of operation
grading	once per day of operation
wind erosion	once per day of operation

2. 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 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.

3. The permittee shall maintain the following monthly blasting records:
- a. the date that each blast occurred;
  - b. the total number of blasts each month; and
  - c. the annual, year-to-date, number of blasts [sum of (b) for each calendar month to date from January to December].
4. The permittee shall maintain the following monthly mineral extraction records:
- a. the total limestone throughput (i.e. the amount of stone loaded into trucks), in tons per month; and
  - b. the annual, year-to-date, amount of limestone processed [sum of (a) for each calendar month to date from January to December].

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**D. Reporting Requirements**

1. The permittee shall submit 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 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.
2. The permittee shall submit annual written reports that specify:
  - a. the total number of blasts for the previous calendar year.
  - b. the total limestone throughput (i.e. the amount of stone loaded into trucks), in tons, for the previous calendar year.

These reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

1. Compliance with the emissions limitations specified in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitations:  
39.27 tons fugitive PE/year

Applicable Compliance Method:

The annual fugitive particulate emission limitations were developed by applying the following emission factors/equations and control efficiencies to the associated process weight rates:

<b>Mineral Extraction Operation</b>	<b>Maximum Process Weight Rate</b>	<b>Control Efficiency</b>	<b>PE Emission Factor</b>	<b>Emission Factor Citation</b>

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Overburden Removal by scraper	200,000 tons removed	none	0.058 lb/ton removed	AP-42 11.9-4 (10/98)
soil removal	1000 vehicle miles traveled (VMT)/year	none	20.2 lbs /VMT	AP-42 13.2.3-1 (01/95)
overburden replacement	200,000 tons/year	none	0.012 lb/ton	AP-42 11.9-4 (10/98)
overburden loading	200,000 tons/year	none	0.037 lb/ton	AP-42 11.9-4 (10/98)
mineral loading	200,000 tons/year	none	0.000016 lb/ton	AP-42 11.19.2-2 (8/04)
Drilling	4080 holes/year	90%	1.30 lbs/hole	AP-42 11.9-4 (10/98)
Blasting	48 blasts/year	None	42.60 lbs/blast	AP-42 11.9.1 (10/98)
bulldozing	1000 dozer hrs/year	none	11.12 lbs/ dozer hour	AP-42 11.9-1 (10/98)
grading	1000 VMT/year	none	0.40 lb/vehicle mile traveled (VMT)	AP-42 11.9-1 (10/98)
wind erosion	30 acres/year	none	0.38 tons/acre/year	AP-42, Section 13.2.2 (12/03)

Therefore, provided compliance is shown with the operational restrictions of this permit and the requirement to apply best available control measures, compliance with the annual emission limitations will be assumed.

b. Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 3-minute average from the following mineral extraction operations: overburden removal, soil removal, overburden replacement, overburden loading, mineral loading, drilling, bulldozing, grading and wind erosion.

Applicable Compliance Method:

If required, compliance shall be demonstrated using Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 (Standards of Performance for New Stationary Sources") as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

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**F. Miscellaneous Requirements**

None