



State of Ohio Environmental Protection Agency

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

**CERTIFIED MAIL**

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 03-16242**

**Fac ID: 0369000049**

**DATE: 4/5/2005**

National Lime + Stone Company  
Dan Mapes  
551 Lake Cascades Parkway  
Findlay, OH 45839

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 by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 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. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. 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, Ohio 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: 4/5/2005  
Effective Date: 4/5/2005**

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**FINAL PERMIT TO INSTALL 03-16242**

Application Number: 03-16242  
Facility ID: 0369000049  
Permit Fee: **\$1500**  
Name of Facility: National Lime + Stone Company  
Person to Contact: Dan Mapes  
Address: 551 Lake Cascades Parkway  
Findlay, OH 45839

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**18264 State Route 189  
Columbus Grove, Ohio**

Description of proposed emissions unit(s):  
**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

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 quarterly, i.e., 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 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)**

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

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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.

**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.

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**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**

<b><u>Pollutant</u></b>	<b><u>Tons Per Year</u></b>
PE (fugitive)	27.21

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F001 - 250 ton per hour aggregate processing plant including primary & secondary crushing, screening, and conveying	OAC rule 3745-31-05(A)(3)	13.84 tons per year fugitive particulate emissions (PE)  20% opacity as a three-minute average for front-end loader dumping into feeder (for the primary crusher) (See A.2.g)  Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See A.2.a through A.2.c)  See A.2.d
	OAC rule 3745-17-07(B)	See A.2.e
	OAC rule 3745-17-08(B)	See A.2.f
	40 CFR Part 60, Subpart OOO	Visible emission restrictions (See A.2.g)

**2. Additional Terms and Conditions**

- 2.a The permittee shall employ best available control measures for the above-identified material handling operations for the purposes 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:

material handling operation

control measure(s)

primary & secondary crushing and screening water sprays as needed

transfer points

watering, as needed, to carry sufficient moisture over from water sprays on primary & secondary crushing and screening

- 2.b** 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 the use of the control measures are unnecessary.
- 2.c** 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(A)(3).
- 2.d** The requirements of this rule also include compliance with 40 CFR 40 Part 60, Subpart 000.
- 2.e** This emissions unit is exempt from the visible emissions limitations specified in OAC rule 3745-17-08(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- 2.f** This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08 (Putnam County). Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- 2.g** Visible particulate emissions from the aggregate processing equipment included under this permit shall not exceed the following opacity restrictions:

<b>Emission Point (Company ID)</b>	<b>Equipment Type</b>	<b>Opacity Limit as a 6-minute average, unless otherwise specified</b>	<b>Regulatory Basis for Limit</b>
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**Nation****PTI A****Issued: 4/5/2005**Emissions Unit ID: **F001**

Front End Loader to vibrating feeder (VF1)	Transfer Point	20% opacity as a 3-minute average	OAC 3745-31-05(A)(3)
Vibrating Feeder (VF1)	Screen	10%	40 CFR Part 60, Subpart OOO
Vibrating Feeder (VF1) to Primary Conveyor (PC1)	Transfer Point	10%	40 CFR Part 60, Subpart OOO
Primary Conveyor (PC1) to Primary Crusher (CR1)	Transfer Point	15%	40 CFR Part 60, Subpart OOO
Primary Crusher (CR1)	Crusher	15%	40 CFR Part 60, Subpart OOO
Primary Crusher (CR1) to Primary Conveyor (PC1)	Transfer Point	15%	40 CFR Part 60, Subpart OOO
Primary Conveyor (PC1) to Conveyor (C1)	Transfer Point	10%	40 CFR Part 60, Subpart OOO
Conveyor (C1) to Primary Screen (S1)	Transfer Point	10%	40 CFR Part 60, Subpart OOO
Primary Screen (S1)	Screen	10%	40 CFR Part 60, Subpart OOO
Primary Screen(S1) to Conveyor (C2)	Transfer Point	10%	40 CFR Part 60, Subpart OOO
Primary Screen (S1) to Conveyor (C3)	Transfer Point	10%	40 CFR Part 60, Subpart OOO
Conveyor (C3) to Secondary Crusher (CR2)	Transfer Point	15%	40 CFR Part 60, Subpart OOO
Secondary Crusher (CR2)	Crusher	15%	40 CFR Part 60, Subpart OOO
Primary Screen (S1) to Conveyor (3A)	Transfer Point	10%	40 CFR Part 60, Subpart OOO
Conveyor (3A) to Conveyor (3B)	Transfer Point	10%	40 CFR Part 60, Subpart OOO
Primary Screen (S1) to Conveyor (C4)	Transfer Point	10%	40 CFR, Part 60, Subpart OOO
Conveyor (C4) to Conveyor (C5)	Transfer Point	10%	40 CFR, Part 60, Subpart OOO
Secondary Crusher (CR2) to Conveyor (C6)	Transfer Point	15%	40 CFR, Part 60, Subpart OOO
Conveyor (C6) to Secondary Screen (S2)	Transfer Point	10%	40 CFR, Part 60, Subpart OOO
Secondary Screen (S2)	Screen	10%	40 CFR, Part 60, Subpart OOO
Secondary Screen (S2) to Conveyor (C7)	Transfer Point	10%	40 CFR, Part 60, Subpart OOO
Conveyor (C7) to Conveyor (C3)	Transfer Point	10%	40 CFR, Part 60, Subpart OOO

Secondary Screen (S2) to Conveyor (C8)	Transfer Point	10%	40 CFR, Part 60, Subpart OOO
Conveyor (C8) to Conveyor (C9)	Transfer Point	10%	40 CFR, Part 60, Subpart OOO
Secondary Screen (S2) to Conveyor (C10)	Transfer Point	10%	40 CFR, Part 60, Subpart OOO
Secondary Screen (S2) to Conveyor (C11)	Transfer Point	10%	40 CFR, Part 60, Subpart OOO
Conveyor (C11) to Conveyor (C4)	Transfer Point	10%	40 CFR, Part 60, Subpart OOO

**2.h** 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 requirement for 40 CFR Part 60 is also federally enforceable.

**B. Operational Restrictions**

None

**C. Monitoring and/or Record keeping Requirements**

1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>material handling operation</u>	<u>minimum inspection frequency</u>
all	once during each day of operation

2. The above mentioned inspections shall be performed during representative, normal operating conditions.

3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above mentioned applicable requirements.

4. The permittee shall maintain records of the following information:

a. the date and reason any required inspection was not performed;

- b. the date 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 4.d shall be kept separately for each material handling 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 reports 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 written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR, Part 60, Subpart OOO, including the reports of opacity observations using Method 9 to demonstrate compliance with this subpart.
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 screen:
    - 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.

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- c. 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 of 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 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, OH 43402

#### **E. Testing Requirements**

- 1. The permittee shall conduct, or have conducted, emission testing for all transfer points, screens and crushers of this emissions unit.
- 2. 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.
- 3. 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 EPA, Division of Air Pollution Control. The emission testing shall be conducted to demonstrate compliance with the allowable visible emission rates for particulate emissions.

4. 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
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 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 District Office's air agency's refusal to accept the results of the emission 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 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: 13.84 tons per year fugitive PE

Applicable Compliance Method: The emission limitation was developed in accordance with the following equation: Total Emissions = crushing\* + screening\*\* + transfer points\*\*\*

\*Crushing: for each crusher, multiply the AP-42 emission factor of 0.0012 lb PE/ton (Section 11.19.2 - Revised 08/04) by the maximum annual throughput of 2,190,000 tons (250 tons per hour multiplied by 8760 hour/year) and divide by 2000.

\*\*screening: for each screen, multiply the AP-42 emission factor of 0.0022 lb PE/ton

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(Section 11.19.2 - Revised 08/04) by the maximum annual throughput of 2,190,000 tons (250 tons per hour multiplied by 8760 hour/year) and divide by 2000.

\*\*\*transfer points: for each transfer point, multiply the AP-42 emission factor of 0.00014 lb PE/ton (Section 11.19.2 - Revised 08/04) by the maximum annual throughput of 2,190,000 tons (250 tons per hour multiplied by 8760 hour/year) and divide by 2000.

Therefore, provided compliance is shown with the requirement to apply best available control measures, compliance with the ton per year PE limitation will be assumed.

- b. Emission Limitation: 20% opacity as a three-minute average for front-end loader dumping into the vibrating feeder.

Applicable Compliance Method: If required, compliance with the visible emission limitation shall be determined in accordance with 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.

- 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 emissions which exhibit greater than 15% opacity.

Applicable Compliance Method: Compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A, and the procedures in 40 CFR, Part 60, Subpart OOO as specified in sections E.1 through E.6 above.

- d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere from any transfer point on belt conveyors or screens any fugitive emissions which exhibit greater than 10% opacity.

Applicable Compliance Method: Compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A, and the procedures in 40 CFR, Part 60, Subpart OOO as specified in sections E.1 through E.6 above.

## F. Miscellaneous Requirements

None

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F002 - mineral extraction including soil removal by scraper, overburden loading, mineral loading, drilling and blasting	OAC rule 3745-31-05(A)(3)	5.99 ton per year fugitive particulate emissions (PE)  Opacity Restrictions (see A.2.d)  Use of best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.a and A.2.c)
	OAC rule 3745-17-07(B)	See A.2.e
	OAC rule 3745-17-08(B)	See A.2.f

**2. Additional Terms and Conditions**

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

- i. soil removal by scraper
- ii. overburden loading
- iii. mineral loading
- iv. drilling
- v. blasting

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- 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:

<u>mineral extraction operation</u>	<u>control measure(s)</u>
soil removal by scraper watering as needed	maintenance of an inherent moisture content,
overburden loading	maintenance of an inherent moisture content, watering as needed
mineral loading	maintenance of an inherent moisture content, watering as needed
blasting	minimize area to be blasted, prevention of overshooting
drilling	use of baghouse (fabric filter) and/or wet drilling

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

- 2.c** 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.d** Visible particulate emissions shall not exceed 20% opacity as a 3-minute average from the following mineral extraction operations: soil removal by scraper, overburden loading, mineral loading, and drilling.
- 2.e** 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).
- 2.f** This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08 (Putnam County). Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

**B. Operational Restrictions**

1. The permittee shall be limited to 52 blasts per year.
2. The permittee shall not process more than 1,000,000 tons of mineral per year.

**C. Monitoring and/or Record keeping 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 in accordance with the following minimum frequencies:

<u>mineral extraction operation</u>	<u>minimum inspection frequency</u>
all	once per day of operation

2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. 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 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.

5. The permittee shall maintain the following monthly records for each blast:
  - a. the date the 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).
6. The permittee shall maintain monthly records of the quantity of mineral processed, in tons per month. For each month, the permittee shall also calculate the annual, year-to-date, amount of stone processed (cumulative total of each month to date from January to December).

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

1. The permittee shall submit deviation reports 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.

The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

2. The permittee shall submit annual deviation reports that identify exceedances of the following:
  - a. the annual number of blasts per year; and
  - b. the annual limit of the amount of mineral processed.

If no deviations occurred during a calendar year, the permittee shall submit an annual report, which states that no deviations occurred during that calendar year. The reports shall be submitted annually, by January 31 of each year and shall cover the previous calendar year.

#### **E. Testing Requirements**

1. Compliance with the emissions limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitation: 5.99 tons per year fugitive PE

Applicable Compliance Method:

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

Mineral Extraction Operation	Maximum Process Weight Rate	Control Efficiency	Emission Factor	Emission Factor Citation
Overburden Removal	500,000 tons/year	None Established	0.004 lbs/ton	RACM Table 2.1.4-3, 9/88
Overburden Loading	500,000 tons/year	None Established	0.008 lb/ton	AP-42 Table 13.2.4-3, 1/95
Drilling	1,000,000 tons/year	90%	0.008 lb/ton	RACM Table 2.1.4-4, 9/88
Blasting	52 blasts/year	None	58.5 lbs/blast	RACM Table 2.1.4-4, 9/88
Mineral Loading	1,000,000 tons/year	None Established	0.002 lbs/ton	AP-42 Table 13.2.4-3, 1/95

Therefore provided compliance is shown with the requirements of this permit to apply best available control measures, compliance with the annual limitation will be assumed.

- b. Emission Limitation: Visible particulate emissions shall not exceed 20% opacity as a three-minute average from the following mineral extraction operations:
- i. soil removal by scraper
  - ii. overburden loading
  - iii. mineral loading
  - iv. drilling

Applicable Compliance Method: If required, compliance with the visible emission limitation for the material handling operation(s) identified above shall be determined in accordance with 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.

#### F. Miscellaneous Requirements

None

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
F003 - Aggregate storage piles	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-07(B)
load-in and load-out of storage piles (see section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-08(B)
	OAC rule 3745-17-07(B)	
	OAC rule 3745-17-08(B)	
wind erosion from storage piles (see section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3)	

Applicable Emissions  
Limitations/Control Measures

1.49 tons fugitive particulate emissions (PE)/yr

No visible particulate emissions except for a period of time not to exceed one minute during any 60-minute observation period.

Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.b, A.2.c and A.2.f)

See A.2.g

See A.2.h

No visible particulate emissions except for a period of time not to exceed one minute during any 60-minute observation period.

Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.b, A.2.d, and A.2.f)

See A.2.g

See A.2.h

**2. Additional Terms and Conditions**

**2.a** The storage piles that are covered by this permit and subject to the above mentioned

requirements are listed below:

limestone aggregate piles

- 2.b** The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles 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:
- i. treat the load-in materials with water and maintain low drop height from conveyors;
  - ii. treat load-out materials with water and maintain low drop height from front-end loader.
- Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c** The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- 2.d** The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles 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 treat each storage pile with water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.f** 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 rules 3745-17-08 and 3745-31-05.

**2.g** This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

**2.h** This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08 (Putnam County). Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

## B. Operational Restrictions

None

## C. Monitoring and/or Record keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

storage pile identification

All

minimum load-in inspection frequency

Once during each day of operation

2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

storage pile identification

All

minimum load-out inspection frequency

Once during each day of operation

3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

storage pile identification

All

minimum wind erosion inspection frequency

Once during each day of operation

Emissions Unit ID: F003

4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
6. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
7. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
  - c. the dates the control measures were implemented; and
  - d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 7.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), 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 reports that identify any of the following occurrences:
  - 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.

**E. Testing Requirements**

1. Emission Limitation  
1.49 TPY fugitive PE

Applicable Compliance Method

Compliance shall be demonstrated by calculations using AP-42 emission factors for load in/load out, section 13.2-4 (revised 1/95) and section 11.12-2 (revised 1/95) for wind erosion and a maximum throughput for storage piles of 200,000 tons/yr and maximum storage pile area of 2 (two) acres.

2. Emission Limitation  
No visible emissions except for a period of time not to exceed 1 minute during any 60-minute observation period.

Applicable Compliance Method

Compliance with the visible emission limitations for the storage piles identified above shall be determined in accordance with Test Method 22 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, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

**F. Miscellaneous Requirements**

None

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
		OAC rule 3745-17-07(B)
		OAC rule 3745-17-08(B)
F004 - paved and unpaved roadways and parking areas	OAC rule 3745-31-05(A)(3)	
paved roadways and parking areas	OAC rule 3745-31-05(A)(3)	
	OAC rule 3745-17-07(B)	
	OAC rule 3745-17-08(B)	
unpaved roadways and parking areas (See section A.2.b)	OAC rule 3745-31-05(A)(3)	

Applicable Emissions  
Limitations/Control Measures

5.89 tons fugitive particulate emissions (PE)

No visible PE except for one minute during any sixty minute period

Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See section A.2.c and A.2.e through A.2.i)

See A.2.j

See A.2.k

No visible PE except for three minutes during any sixty minute period

Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See sections A.2.d through A.2.i)

See A.2.j

See A.2.k

**2. Additional Terms and Conditions**

**2.a** The paved roadways and parking areas that are covered by this permit and subject to the above mentioned requirements are listed below:

paved roadways:  
all paved roadways

paved parking areas:  
all paved parking areas

- 2.b** The unpaved roadways and parking areas that are covered by this permit and subject to the above mentioned requirements are listed below:

unpaved roadways:  
all unpaved roadways

unpaved parking areas:  
all unpaved parking areas

- 2.c** The permittee shall employ best available control measures on all paved roadways and parking areas 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 treat the paved roadways and parking areas by sweeping and flushing with water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d** The permittee shall employ best available control measures on all unpaved roadways and parking areas 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 treat the unpaved roadways and parking areas with water, chemical stabilization and surface improvements at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above mentioned applicable requirements. Implementation of any control measures may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.f** Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved

roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways or parking areas.

- 2.g The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.h Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all time if the control measures is necessary for the materials being transported.
- 2.i Implementation of the above mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05(A)(3).
- 2.j This emissions unit is exempt from the visible emissions limitations specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- 2.k This facility is not located within an "Appendix A" areas as identified in OAC rule 3745-17-08 (Putnam County). Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

## B. Operational Restrictions

None

## C. Monitoring and/or Record keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the roadways and parking areas in accordance with the following frequencies:

<u>paved roadways and parking areas</u>	<u>minimum inspection frequency</u>
all	daily
<u>unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
all	daily

2. The purpose of this inspections is to determine the need from implementing the above mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above mention applicable requirements. Any required inspection that is not performed due to any of the above mentioned events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
  - c. the dates the control measures were implemented; and
  - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.d shall be kept separately for (I) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, 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 reports that identify any of the following occurrences:
  - 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.

2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

#### E. Testing Requirements

1. Compliance with the emission limitations in Section A.1. of the term and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitation: 5.89 tons fugitive PE from paved and unpaved roadways and parking areas

Applicable Compliance Method: This emission limitation was developed by multiplying emission factors from AP-42, Chapter 13.2.1 (12/03) [paved] and Chapter 13.2.2 (12/03) [unpaved], the maximum vehicles miles traveled, 95% control efficiency and dividing by 2000 lbs/ton:

- i. entrance road (paved):  $(4.93 \text{ lb PE/VMT})(6,400 \text{ VMT})(\text{ton}/2000 \text{ lbs})(1-0.95) = 0.79$
- ii. service road (unpaved):  $(8.82 \text{ lb PE/VMT})(30,400 \text{ VMT})(\text{ton}/2000 \text{ lbs})(1-0.95) = 6.70$
- iii. parking area (unpaved):  $(6.70 \text{ lb PE/VMT})(150 \text{ VMT})(\text{ton}/2000 \text{ lbs})(1-0.95) = 0.03$

- b. Emission Limitation: No visible PE except for one-minute during any sixty-minute period from paved roadways and parking areas

Applicable Compliance Method: Compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 22 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, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

- c. Emission Limitation: No visible PE except for three-minute during any sixty-minute period from unpaved roadways and parking areas

Applicable Compliance Method: Compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 22 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, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

#### F. Miscellaneous Requirements

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**Issued**

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**Emissions Unit ID: F004**

None