



Joseph E. Kernan
Governor

Lori F. Kaplan
Commissioner

June 8, 2004

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.in.gov/idem

TO: Interested Parties / Applicant
RE: Prairie Materials - Lowell Yard / 089-18464-00488
FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FNPER.dot 9/16/03



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**NEW SOURCE CONSTRUCTION PERMIT and
SPECIFIC SOURCE OPERATING AGREEMENT (SSOA)
OFFICE OF AIR QUALITY**

**Prairie Material - Lowell Yard
SE Corner of 205th Avenue and Austin Street
Lowell, Indiana 46356**

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this permit.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-5.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Operation Permit No.: SSOA 089-18464-00488	
Issued by: Original Signed by Paul Dubenetzky Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: June 8, 2004 Expiration Date: June 8, 2009

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Subpart 000]

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SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in Conditions A.1 and A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary aggregate nonmetallic mineral processing plant.

Authorized Individual:	General Manger - Aggregates Division
Source Address:	SE Corner of 205 th Avenue and Austin Street, Lowell, Indiana, 46356
Mailing Address:	7601 West 79 th Street, Bridgeview, Illinois 60455
General Source Phone:	708-458-0400
SIC Code:	1422
County Location:	Lake
Source Location Status:	Nonattainment area for Ozone Attainment area for all other criteria pollutants
Source Status:	Source Specific Operating Agreement Minor Source, under Emission Offset Rules; Minor Source, Section 112 of the Clean Air Act

A.2 Emissions Units and Pollution Control Equipment Summary

This stationary source is approved to construct and operate the following emissions units and pollution control devices:

One (1) aggregate nonmetallic mineral processing operation, capacity: 700 tons of wet stone per hour and consists of the following:

- (a) One (1) primary crusher, capacity: 1,100 tons of wet stone per hour.
- (b) One (1) secondary crusher, capacity: 500 tons of wet stone per hour.
- (c) One (1) tertiary crusher, capacity: 400 tons of wet stone per hour.
- (d) Four (4) screens, capacity: 600 tons of wet stone per hour, total.
- (e) One (1) conveyance system, consisting ten (10) conveyors, capacity: 700 tons of wet stone per hour, total.
- (f) One (1) fines mill, capacity: 20 tons of fines per hour.

A.3 SSOA Applicability [326 IAC 2-9-1]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Source Specific Operating Agreement (SSOA).

SECTION B GENERAL CONDITIONS

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

B.1 Permit No Defense [IC 13]

This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

B.2 Definitions

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations IC 13-11, 326 IAC 1-2, and 326 IAC 2-1.1-1 shall prevail.

B.3 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.

B.4 Revocation of Permits [326 IAC 2-1.1-9(5)]

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

B.5 Modification to Permit [326 IAC 2]

Notwithstanding the Section B condition entitled "Source Specific Operating Permit Program", all requirements and conditions of this construction permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

B.6 Source Specific Operating Agreement Program [326 IAC 2-9]

This document shall also become a source specific operating agreement pursuant to 326 IAC 2-9-1 when, prior to start of operation of the aggregate nonmetallic mineral processing plant, the following requirements are met.

- (a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), Permit Administration & Development Section.
 - (1) If the Affidavit of Construction verifies that the facilities covered in this Construction Permit were constructed as proposed in the application, then the facilities may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM.
 - (2) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2-9 and an Operation Permit Validation Letter is issued.
- (b) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.
- (c) Upon receipt of the Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section, the Permittee shall attach it to this document.

- (d) The operating agreement will be subject to an annual operating permit fee of \$800 pursuant to 326 IAC 2-9-8(b)(3) (Crushed Stone Processing Plants).

B.7 Phase Construction Time Frame

Pursuant to 326 IAC 2-1.1-9(5) (Revocation of Permits), the IDEM may revoke this permit to construct if the construction of aggregate nonmetallic mineral processing plant has not begun within eighteen (18) months from the effective date of this permit or if during the construction of aggregate nonmetallic mineral processing plant, work is suspended for a continuous period of one (1) year or more.

The OAQ may extend such time upon satisfactory showing that an extension, formally requested by the Permittee is justified.

B.8 NSPS Reporting Requirement

Pursuant to the New Source Performance Standards (NSPS), Part 60.670 - 60.676 Subpart OOO, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- (a) Commencement of 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 (at least 30 days prior to such date), when required by a condition elsewhere in this permit.

Reports are to be sent to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, IN 46206-6015

The application and enforcement of these standards have been delegated to the IDEM, OAQ. The requirements of 40 CFR Part 60 are also federally enforceable.

B.9 Annual Notification [326 IAC 2-6.1-5(a)(5)]

- (a) Annual notification shall be submitted to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.
- (c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:

Compliance Branch, Office of Air Quality
Indiana Department of Environmental Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

- (d) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

B.10 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days (this time frame is determined on a case by case basis but no more than ninety (90) days) after issuance of this permit, including the following information on each emissions unit:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The PMP extension notification does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.
- (c) A copy of the PMP's shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMP whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

- (a) Permit revisions are governed by the requirements of 326 IAC 2-6.1-6.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1.

- (c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]
- (d) No permit amendment or modification is required for the addition, operation or removal of a non-road engine, as defined in 40 CFR 89.2.

B.12 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)] [IC 13-14-2-2] [IC13-17-3-2] [IC 13-30-3-1]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under this title or the conditions of this permit or any operating permit revisions;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.13 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]

Pursuant to [326 IAC 2-6.1-6(d)(3)]:

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAQ, Permits Branch, within thirty (30) days of the change.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).
- (c) IDEM, OAQ, shall issue a revised permit.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

B.14 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing.

- (b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, I/M & Billing Section), to determine the appropriate permit fee.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

C.1 Source Status [326 IAC 2-9] [326 IAC 2-7] [326 IAC 2-3]

- (a) The requirements of Option 3 under 326 IAC 2-9-8 are applicable to this SSOA.
- (b) Pursuant to 326 IAC 2-9-1(g), the source may apply for up to four (4) different SSOAs contained in 326 IAC 2-9.
- (c) The potential to emit PM₁₀, SO₂, NO_x, and CO from the entire source shall be limited less than one hundred (100) tons per year and the potential to emit VOC from the entire source shall be limited to less than twenty-five (25) tons per year. Compliance with these limits renders the requirements of 326 IAC 2-7 (Part 70) and 326 IAC 2-3 (Emissions Offset) not applicable.

C.2 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to construct and operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute non-overlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.5 Particulate Matter Emission Limitations [326 IAC 6-1-11.1] [326 IAC 6-5]

- (a) The Permittee shall be in violation of 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements), if the opacity of fugitive particulate emissions exceeds ten percent (10%). Compliance with this opacity limit shall be achieved by controlling fugitive particulate matter emissions according to the plan submitted on April 13, 2004. The plan consists of: wet suppression of dust from unpaved roadways and storage piles.
- (b) Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan required in paragraph (a) of this condition

C.6 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-7-1(34).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

Testing Requirements

C.7 Performance Testing [326 IAC 3-6]

- (a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date.

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAQ, if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.8 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U.S. EPA.

Compliance Monitoring Requirements

C.9 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.10 Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60, Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

C.11 Actions Related to Noncompliance Demonstrated by a Stack Test

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected emissions unit while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that re-testing in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the re-testing deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to non-compliant stack tests.

The response action documents submitted pursuant to this condition do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1.

Record Keeping and Reporting Requirements

C.12 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and

usual manner. [326 IAC 1-2-39]

C.13 General Record Keeping Requirements [326 IAC 2-6.1-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented when operation begins.

C.14 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) Reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) Unless otherwise specified in this permit, any report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The report does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

SECTION D.1

EMISSIONS UNITS OPERATION CONDITIONS

Emissions Unit Description: Aggregate Nonmetallic Mineral Processing

One (1) aggregate nonmetallic mineral processing operation, capacity: 700 tons of wet stone per hour and consists of the following:

- (a) One (1) primary crusher, capacity: 1,100 tons of wet stone per hour.
- (b) One (1) secondary crusher, capacity: 500 tons of wet stone per hour.
- (c) One (1) tertiary crusher, capacity: 400 tons of wet stone per hour.
- (d) Four (4) screens, capacity: 600 tons of wet stone per hour, total.
- (e) One (1) conveyance system, consisting ten (10) conveyors, capacity: 700 tons of wet stone per hour, total.
- (f) One (1) fines mill, capacity: 20 tons of fines per hour.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards

D.1.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]

The provisions of 40 CFR 60 Subpart A - General Provisions, which are incorporated as 326 IAC 12-1, apply to the aggregate nonmetallic mineral processing plant except when otherwise specified in 40 CFR 60 Subpart OOO.

D.1.2 Number of Facilities [326 IAC 2-9-8]

The crushed stone operation shall have no more than nine (9) crushers, seventeen (17) screens, and one (1) conveying operation.

D.1.3 Annual Throughput [326 IAC 2-9-8]

The crushed stone operation annual throughput shall be less than three million (3,000,000) tons per year.

D.1.4 Opacity [326 IAC 2-9-8] [326 IAC 12] [40 CFR 60.670, Subpart OOO]

Pursuant to 326 IAC 2-9-8 (Crushed stone processing plants) and New Source Performance Standards, 326 IAC 12 (40 CFR 60.670, Subpart OOO) "Standards of Performance for Non-metallic Mineral Processing Plants" the following standards shall apply to this plant:

- (a) The visible emissions from the screening and conveying operation shall not exceed an average of ten percent (10%) opacity in twenty-four (24) consecutive readings in a six (6) minute period. Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.
- (b) The visible emissions from the crushing operation shall not exceed an average of fifteen percent (15%) opacity in twenty-four (24) consecutive readings in a six (6) minute period. Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.
- (c) These limits shall also satisfy the requirements of 326 IAC 5-1 (Opacity Limitations).

D.1.5 Opacity [326 IAC 2-9-8] [326 IAC 6-1-11.1]

Pursuant to 326 IAC 2-9-8 (Crushed stone processing plants) and 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements), the fugitive particulate matter (PM) emissions of this source shall be controlled by applying water on all storage piles and unpaved roadways on an as needed basis, such that the following visible emission conditions are met:

- (a) The visible emissions from any storage pile shall not exceed ten percent (10%) in twenty-four (24) consecutive readings in a six (6) minute period. This limitation shall not apply during periods when application of control measures are ineffective or unreasonable due to sustained high wind speeds. The opacity shall be determined using 40 CFR 60, Appendix A, Method 9, except that the opacity shall be observed at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand at least fifteen (15) feet, but no more than one-fourth (1/4) mile, from the plume and at approximately right angles to the plume.
- (b) The visible emissions from unpaved roadways shall not exceed an average instantaneous opacity of ten percent (10%). Average instantaneous opacity shall be the average of twelve (12) instantaneous opacity readings, taken for four (4) vehicle passes, consisting of three (3) opacity readings for each vehicle pass. The three (3) opacity readings for each vehicle pass shall be taken as follows:
 - (1) The first reading shall be taken at the time of emission generation.
 - (2) The second reading shall be taken five (5) seconds after the first.
 - (3) The third reading shall be taken five (5) seconds after the second reading, or ten (10) seconds after the first reading.

The three (3) readings shall be taken approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand at least fifteen (15) feet, but no more than one-fourth (1/4) mile, from the plume and at approximately right angles to the plume.

Compliance Determination Requirements

D.1.6 Dust Suppression for Crushing, Screening and Conveying Operations [326 IAC 2-9-8]

Pursuant to 326 IAC 2-9-8 (Crushed stone processing plants), the crushing, screening and conveying operations shall be equipped with dust collectors, unless a wet or continuous wet suppression system is used to comply with Conditions D.1.4(a) and (b).

D.1.7 Particulate [326 IAC 2-9-8]

Pursuant to 326 IAC 2-9-8 (Crushed stone processing plants), all equipment that generate particulate and any associated control devices shall be operated and maintained at all times of plant operation, in such a manner, as to meet all of the requirements of this Source Specific Operating Agreement

D.1.8 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11] [40 CFR 60.675, Subpart OOO]

Within 60 days of achieving maximum production or 180 days after initial start-up of the aggregate nonmetallic mineral processing plant, whichever comes first, to demonstrate compliance with Conditions D.1.4(a) and (b), the Permittee shall perform opacity testing for each crusher, conveyor, and screen, utilizing the test methods and procedures listed in 40 CFR 60.675, Subpart OOO. These tests shall be repeated at least once every five (5) years. Testing shall be conducted in accordance with Section C- Performance Testing.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

There are no specific Compliance Monitoring Requirements applicable to these facilities.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.9 Record Keeping Requirements [326 IAC 2-9-8]

The Permittee shall keep annual throughput records of the crushed stone operation at the site on a calendar year basis. These records shall be maintained for a minimum period of five (5) years, and made available upon request of the Office of Air Quality (OAQ).

D.1.10 Annual Notification [326 IAC 2-9-8]

The Permittee shall provide an annual notice to the commissioner, stating that the source is in operation, and certifying that its operations are in compliance with the requirements of this Source Specific Operating Agreement. The above annual notice will be submitted to:

Compliance Data Section
Office of Air Quality
100 North Senate Avenue
P.O. Box 6015
Indianapolis, IN 46206-6015

no later than January 30 of each year, with the annual notice being submitted in the format attached to the operating agreement.

D.1.11 Reporting Requirements [326 IAC 2-9-8]

Any exceedance of any requirement contained in this operating agreement shall be reported, in writing, within one (1) week of its occurrence. Said report shall include information on the actions taken to correct the exceedance, including measures to reduce emissions, in order to comply with the established limits. If an exceedance is the result of a malfunction, then the provisions of 326 IAC 1-6 apply.

Source Specific Operating Agreement Annual Notification
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This form should be used to comply with the notification requirements under 326 IAC 2-9.

Company Name:	Prairie Material - Lowell Yard
Address:	SE Corner of 205th Avenue and Austin Street
City:	Lowell, Indiana 46356
Contact Person:	Robert Furlong
Phone #:	708-458-0400
SSOA #:	S 089-18464-00488

I hereby certify that Prairie Material - Lowell Yard is still in operation and is in compliance with the requirements of Source Specific Operating Agreement (SSOA) S 089-18464-0488.

Name (typed):
Title:
Signature:
Date:

Mail to: Permit Administration & Development Section
Office of Air Quality
100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015

Prairie Material
7601 West 79th Street
Bridgeview, Illinois 60455

Affidavit of Construction

I, _____, being duly sworn upon my oath, depose and say:
(Name of the Authorized Representative)

- 1. I live in _____ County, in the state of _____, and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
- 2. I hold the position of _____ for Prairie Material - Lowell Yard.
(Title) (Company Name)
- 3. By virtue of my position with Prairie Material - Lowell Yard, I have personal knowledge of the
(Company Name)
representations contained in this affidavit and am authorized to make these representations on behalf of
Prairie Material - Lowell Yard.
(Company Name)
- 4. I hereby certify that Prairie Material - Lowell Yard, located at SE Corner of 205th Avenue and Austin Street, Lowell, Indiana 46356, completed construction of the aggregate nonmetallic mineral processing plant on _____ in conformity with the requirements and intent of the Construction Permit application received by the Office of Air Quality on February 2, 2004 and as permitted pursuant to **No. S 089-18464, Plant ID No. 089-00488** issued on _____.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature

Date

STATE OF INDIANA)
)SS

COUNTY OF _____)

Subscribed and sworn to me, a notary public in and for _____ County and State of
Indiana on this _____ day of _____, 20 _____.

My Commission expires: _____.

Signature

Name (typed or printed)

Indiana Department of Environmental Management Office of Air Quality

Addendum to the Technical Support Document for New Source Construction Permit and Source Specific Operating Agreement

Source Name: Prairie Material - Lowell Yard
Source Location: SE Corner of 205th Avenue and Austin Street, Lowell, Indiana 46356
County: Lake
Operation Permit No.: S 089-18464-00488
SIC Code: 1422
Permit Reviewer: Michael S. Schaffer

On May 4, 2004, the Office of Air Quality (OAQ) had a notice published in The Post Tribune, located in Merrville, Indiana, stating that Prairie Material - Lowell Yard had applied for a Construction Permit and Source Specific Operating Agreement (SSOA) to construct and operate an aggregate nonmetallic mineral processing plant. The notice also stated that OAQ proposed to issue a permit for this installation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Upon further review, the OAQ has decided to make the following changes to the construction permit and SSOA: The permit language is changed to read as follows (deleted language appears as ~~strikeouts~~, new language is **bolded**):

Change:

The permit language in Conditions D.1.4(c), D.1.9, D.1.10 and D.1.11 has been revised to change the word "will" to "shall" as follows:

D.1.4 Opacity [326 IAC 2-9-8] [326 IAC 12] [40 CFR 60.670, Subpart OOO]

(c) These limits ~~will~~ **shall** also satisfy the requirements of 326 IAC 5-1 (Opacity Limitations).

D.1.9 Record Keeping Requirements [326 IAC 2-9-8]

The Permittee ~~will~~ **shall** keep annual throughput records of the crushed stone operation at the site on a calendar year basis. These records shall be maintained for a minimum period of five (5) years, and made available upon request of the Office of Air Quality (OAQ).

D.1.10 Annual Notification [326 IAC 2-9-8]

The Permittee ~~will~~ **shall** provide an annual notice to the commissioner, stating that the source is in operation, and certifying that its operations are in compliance with the requirements of this Source Specific Operating Agreement. The above annual notice will be submitted to:

D.1.11 Reporting Requirements [326 IAC 2-9-8]

Any exceedance of any requirement contained in this operating agreement ~~will~~ **shall** be reported, in writing, within one (1) week of its occurrence. Said report ~~will~~ **shall** include information on the actions taken to correct the exceedance, including measures to reduce emissions, in order to comply with the established limits. If an exceedance is the result of a malfunction, then the provisions of 326 IAC 1-6 apply.

**Indiana Department of Environmental Management
Office of Air Quality**

Technical Support Document (TSD) for a New Source Construction and
Source Specific Operating Agreement (SSOA)

Source Background and Description

Source Name: Prairie Material - Lowell Yard
Source Location: SE Corner of 205th Avenue and Austin Street, Lowell, Indiana 46356
County: Lake
SIC Code: 1422
Operation Permit No.: S 089-18464-00488
Permit Reviewer: Michael S. Schaffer

The Office of Air Quality (OAQ) has reviewed an application from Prairie Material - Lowell Yard relating to the construction and operation of an aggregate nonmetallic mineral processing plant.

Emission Units and Pollution Control Equipment

This stationary source consists of the following emission units and pollution control devices:

One (1) aggregate nonmetallic mineral processing operation, capacity: 700 tons of wet stone per hour and consists of the following:

- (a) One (1) primary crusher, capacity: 1,100 tons of wet stone per hour.
- (b) One (1) secondary crusher, capacity: 500 tons of wet stone per hour.
- (c) One (1) tertiary crusher, capacity: 400 tons of wet stone per hour.
- (d) Four (4) screens, capacity: 600 tons of wet stone per hour, total.
- (e) One (1) conveyance system, consisting ten (10) conveyors, capacity: 700 tons of wet stone per hour, total.
- (f) One (1) fines mill, capacity: 20 tons of fines per hour.

Unpermitted Emission Units and Pollution Control Equipment

There are no permitted facilities operating at this source during this review process.

Existing Approvals

There are no existing approvals for this source.

Enforcement Issue

There are no enforcement actions pending.

Stack Summary

There are no stacks associated with the emission units that comprise this source.

Recommendation

The staff recommends to the Commissioner that the construction and operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on February 2, 2004, with additional information received on March 26 and 29, 2004.

Emission Calculations

See Pages 1 through 4 of 4 in Appendix A of this document for detailed emission calculations.

Potential to Emit of the Source Before Controls

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U.S. EPA, the department, or the appropriate local air pollution control agency.”

Pollutant	Potential to Emit (tons/yr)
PM	1,355
PM ₁₀	418
SO ₂	-
VOC	-
CO	-
NO _x	-

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM₁₀ is greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

County Attainment Status

The source is located in Lake County.

Pollutant	Status
PM ₁₀	Attainment
SO ₂	Nonattainment
NO ₂	Attainment
Ozone	Severe Nonattainment
CO	Nonattainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Lake County has been designated as nonattainment for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability for the source section.
- (b) The source is located in Lowell, Indiana, which is in the attainment portion of Lake County for PM₁₀, SO₂, NO₂, CO, and lead emissions.

Source Status

New Source PSD Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	Less Than 100 (excluding fugitives)
PM ₁₀	Less Than 100
SO ₂	-
VOC	-
CO	-
NO _x	-
Single HAP	-
Combination HAPs	-

- (a) This new source is **not** a major stationary source because VOC is not emitted at a rate of 100 tons per year or greater. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.
- (b) The PM (excluding fugitives) and PM₁₀ emissions will be limited to less than 100 tons per year by virtue of operating under a Specific Source Operating Agreement (SSOA) pursuant to 326 IAC 2-9-8(b)(3).

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This new source is subject to the Part 70 Permit requirements because the potential to emit (PTE) of PM_{10} from the entire source is greater than one hundred (100) tons per year pursuant to 326 IAC 2-9-1(b) until the source is issued an operating agreement.

This new source has concurrently applied on February 2, 2004 for a Source Specific Operating Agreement (SSOA) under Option 3 of 326 IAC 2-9-8 (Crushed Stone Processing Plants).

The source, otherwise required to obtain a Title V permit, has agreed to accept a permit with federally enforceable limits that restrict its PTE to below Part 70 thresholds. Therefore, this source will be issued a SSOA pursuant to 326 IAC 2-9-8 for the crushed wet stone processing plant.

Federal Rule Applicability

- (a) The provisions of 40 CFR 60 Subpart A - General Provisions, which are incorporated as 326 IAC 12-1, apply to the aggregate nonmetallic mineral processing plant except when otherwise specified in 40 CFR 60 Subpart OOO.
- (b) The aggregate nonmetallic mineral processing plant is subject to the New Source Performance Standard 326 IAC 12, 40 CFR 60.670 through 60.676, Subpart OOO. This rule requires the particulate emissions from:
 - (1) the crushing operations to be limited to fifteen percent (15%) opacity or less, and
 - (2) the screening and conveying operations to be limited to ten percent (10%) or less.
- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) applicable to this source.

State Rule Applicability – Entire Source

326 IAC 2-3 (Emissions Offset)

By virtue of operating under a Specific Source Operating Permit (SSOA) pursuant to 326 IAC 2-9-8(b)(3), the potential to emit PM and PM_{10} from the entire source excluding fugitive emissions will be limited to less than one hundred (100) tons per year in Lake County. In addition, this new source is not one of the twenty-eight (28) source categories listed under 326 IAC 2-2 or 326 IAC 2-3. Therefore, the requirements of 326 IAC 2-3 (Emissions Offset) are not applicable to this new source.

326 IAC 2-6 (Emission Reporting)

This new source will not be subject to the requirements of 326 IAC 2-6 (Emission Reporting), because it will be operating under a Specific Source Operating Agree pursuant to 326 IAC 2-9-8, which limits this source to under Part 70 thresholds.

326 IAC 2-9-8 (Crushed Stone Processing Plants)

The facilities and processes of this source shall be granted a Source Specific Operating Agreement (SSOA) under Option 3 of 326 IAC 2-9-8 provided that:

- (a) The crushed stone operation will have no more than nine (9) crushers, seventeen (17) screens, and one (1) conveying operation.
- (b) The crushed stone operation annual throughput shall be less than three million (3,000,000) tons per year.
- (c) The Permittee will keep annual throughput records of the crushed stone operation at the site on a calendar year basis. These records shall be maintained for a minimum period of five (5) years, and made available upon request of the Office of Air Quality (OAQ).
- (d) The crushing, screening and conveying operations will be equipped with dust collectors, unless a wet or continuous wet suppression system is used to comply with paragraphs (f) and (g).
- (e) All equipment that generate particulate matter (PM) emissions and any associated control devices will be operated and maintained at all times of plant operation, in such a manner, as to meet all of the requirements of this Source Specific Operating Agreement.
- (f) The visible emissions from the screening and conveying operation will not exceed an average of ten percent (10%) opacity in twenty-four (24) consecutive readings in a six (6) minute period. Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.
- (g) The visible emissions from the crushing operation will not exceed an average of fifteen percent (15%) opacity in twenty-four (24) consecutive readings in a six (6) minute period. Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.
- (h) The fugitive particulate matter (PM) emissions of this source will be controlled by applying water on all storage piles and unpaved roadways on an as needed basis, such that the following visible emission conditions are met:

- (1) The visible emissions from any storage pile will not exceed ten percent (10%) in twenty-four (24) consecutive readings in a six (6) minute period. This limitation shall not apply during periods when application of control measures are ineffective or unreasonable due to sustained high wind speeds. The opacity shall be determined using 40 CFR 60, Appendix A, Method 9, except that the opacity shall be observed at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand at least fifteen (15) feet, but no more than one-fourth (1/4) mile, from the plume and at approximately right angles to the plume.

Note that normally, a SSOA under Option 3 of 326 IAC 2-9-8 requires a twenty percent (20%) opacity limit on storage piles. In this case ten percent (10%) opacity will be required because the source must comply with the requirements of 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements). See paragraph (m) of this section and the analysis of 326 IAC 6-1-11.1 in this document for further details.

- (2) The visible emissions from unpaved roadways will not exceed an average instantaneous opacity of ten percent (10%). Average instantaneous opacity shall be the average of twelve (12) instantaneous opacity readings, taken for four (4) vehicle passes, consisting of three (3) opacity readings for each vehicle pass. The three (3) opacity readings for each vehicle pass shall be taken as follows:

- (A) The first reading shall be taken at the time of emission generation.

- (B) The second reading shall be taken five (5) seconds after the first.
- (C) The third reading shall be taken five (5) seconds after the second reading, or ten (10) seconds after the first reading.

The three (3) readings will be taken approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand at least fifteen (15) feet, but no more than one-fourth (1/4) mile, from the plume and at approximately right angles to the plume.

Note that normally, a SSOA under Option 3 of 326 IAC 2-9-8 requires a twenty percent (20%) opacity limit on storage piles. In this case ten percent (10%) opacity will be required because the source must comply with the requirements of 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements). See paragraph (m) of this section and the analysis of 326 IAC 6-1-11.1 in this document for further details.

- (i) The fugitive particulate emissions at the crushed stone operation will not escape beyond the property lines or boundaries of the source property, right of way, or easement on which the source is located pursuant to 326 IAC 6-4.
- (j) The Permittee will provide an annual notice to the commissioner, stating that the source is in operation, and certifying that its operations are in compliance with the requirements of this Source Specific Operating Agreement. The above annual notice will be submitted to:

Compliance Data Section
Office of Air Quality
100 North Senate Avenue
P.O. Box 6015
Indianapolis, IN 46206-6015

no later than January 30 of each year, with the annual notice being submitted in the format attached to the operating agreement.

- (k) Any exceedance of any requirement contained in this operating agreement will be reported, in writing, within one (1) week of its occurrence. Said report will include information on the actions taken to correct the exceedance, including measures to reduce emissions, in order to comply with the established limits. If an exceedance is the result of a malfunction, then the provisions of 326 IAC 1-6 apply.
- (l) Pursuant to 326 IAC 2-9-1(i), the Permittee is hereby notified that obtaining a SSOA under Option 3 of 326 IAC 2-9-8, does not relieve the Permittee of the responsibility to comply with the provisions of any applicable federal, state, or local rules, or any New Source Performance Standards (NSPS), 40 CFR Part 60, or National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR Part 61. In addition, the requirements of the rules will be included in this SSOA in order to satisfy all construction permit requirements.

326 IAC 5-1 (Opacity Limitations)

The opacity limitations and requirements in 326 IAC 2-9-8 and 40 CFR 60 Subpart OOO will also satisfy the requirements of 326 IAC 5-1 (Opacity Limitations).

326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements)

This source is located in Lake County and has the potential to emit fugitive particulate matter in excess of five (5) tons per year. Therefore, this source is subject to the requirements of 326 IAC 6-1-11.1. A summary of the requirements is as follows:

- (a) The average instantaneous opacity of fugitive particulate emissions from a paved road will not exceed ten percent (10%).
- (b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road will not exceed ten percent (10%).
- (c) The average instantaneous opacity of fugitive particulate emissions from batch transfer will not exceed ten percent (10%).
- (d) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles will not exceed ten percent (10%) on a three (3) minute average.
- (e) The opacity of fugitive particulate emissions from storage piles will not exceed ten percent (10%) on a six (6) minute average.
- (f) There shall be a zero percent (0%) frequency of visible emission observations of a material during the in-plant transportation of material by truck or rail at any time.
- (g) The opacity of fugitive particulate emissions from the in-plant transportation of material by front end loaders and skip hoists will not exceed ten percent (10%).
- (h) There shall be an zero percent (0%) frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.
- (i) The PM₁₀ emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
- (j) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
- (k) Any facility or operation not specified in 326 IAC 6-1-11.1(d) shall meet a twenty percent (20%), three (3) minute average opacity standard.

The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan, submitted on April 13, 2004. The plan consists of adequate wet suppression of dust from unpaved roadways on an "as needed" basis.

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

This rule requires that the source not generate fugitive dust to the extent that some portion of the material escapes beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located.

326 IAC 6-5 (Fugitive Particulate Matter Emissions Limitations)

Pursuant to 326 IAC 6-5-1(b), a fugitive dust plan is required to be submitted since this source is a new source of fugitive particulate matter. The plan that was submitted by this source on April

13, 2004 in order to comply with requirements of 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements) satisfies the control requirements of this rule.

State Rule Applicability – Individual Facilities

326 IAC 6-1 (County Specific Particulate Matter Limitations)

Pursuant to 326 IAC 6-1-1(a)(2), the limitations in 326 IAC 6-1-2 apply to a source if the facilities at that source are not listed in 326 IAC 6-1-8.1 through 326 IAC 6-1-18 and if the potential to emit of the entire source is greater than or equal to one hundred (100) tons of particulate per year or the actual particulate emissions from the entire source are less than ten (10) tons per year.

However, since a particulate emission limit of 0.03 grains per dry standard cubic foot in accordance with 326 IAC 6-1-2(a) cannot be practically enforced at mineral aggregate operations that do not exhaust to stacks and are not enclosed, pursuant to 326 IAC 6-1-2(g), all mineral aggregate operations are required to comply with the requirements of 326 IAC 2, 326 IAC 5-1, and 326 IAC 6-4 in lieu of that particulate limit.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-1(c)(3) and (5), if limitations are established in 326 IAC 12, and/or 326 IAC 6-1 that are more stringent than the particulate limitations that would be established by 326 IAC 6-3, then the requirements of 326 IAC 6-3 do not apply.

IDEM, OAQ has determined that the opacity limitations required under 40 CFR 63, Subpart OOO and 326 IAC 2-9-8 are more stringent than the allowable particulate limitation that would be established 326 IAC 6-3. Therefore, the requirements of 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) are not applicable to this new source.

Testing Requirements

Within 60 days of achieving maximum production or 180 days after initial start-up of the aggregate nonmetallic mineral processing plant, whichever comes first, the Permittee shall perform opacity testing for each crusher, conveyor, and screen utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

This source will be required in the opacity test to use the test methods and procedures listed in 40 CFR 60.675 in order to demonstrate compliance with 40 CFR 60, Subpart OOO and 326 IAC 2-9-8.

Conclusion

The construction and operation of this aggregate mineral processing plant shall be subject to the conditions of the New Source Construction and Specific Source Operating Permit 089-18484-00488.

**Appendix A: Emission Calculations
Stone Quarry and Processing**

Company Name: Prairie Material - Lowell Yard
Address City IN Zip: SE Corner of 205th Avenue and Austin Street, Lowell, IN 46356
Permit Number: S 089-18464
Plant ID: 089-00488
Reviewer: Michael S. Schaffer
Application Date: February 2, 2004

* * PM emissions before controls * *

Storage		** see page 2 **			1.24 tons/yr	AP-42 Ch.11.2.3 (Fourth edition, no update)
Transporting		** see page 3 **			1224.07 tons/yr	AP-42 Ch.13.2.2 (12/2003)
Loading & Unloading	700 ton/hr x	0.0006 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	1.88 tons/yr	AP-42 Ch.13.2.4 (Fifth edition, 1/95) calculated
Crushing (primary)	1100 ton/hr x	0.0007 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	3.37 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Crushing (secondary)*	500 ton/hr x	0.00504 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	11.04 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Crushing (tertiary)*	400 ton/hr x	0.00504 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	8.83 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Fines Screening*	20 ton/hr x	0.1491 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	13.06 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Screening*	600 ton/hr x	0.0315 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	82.78 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Conveyor Transfer*	700 ton/hr x	0.00294 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	9.01 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Total PM emissions before controls:					1355.29 tons/yr	

*PM emission factors are calculated by multiplying the PM-10 emission factors by 2.1 for those emissions factors associated with AP-42 Ch.11.19.2

* * PM emissions after controls * *

Storage	1.24 tons/yr x	50% emitted after controls =	0.62 tons/yr
Transporting	1224.07 tons/yr x	50% emitted after controls =	612.04 tons/yr
Loading & Unloading	1.88 tons/yr x	100% emitted after controls =	1.88 tons/yr
Crushing (primary)	3.37 tons/yr x	100% emitted after controls =	3.37 tons/yr
Crushing (secondary)	11.04 tons/yr x	100% emitted after controls =	11.04 tons/yr
Crushing (tertiary)	8.83 tons/yr x	100% emitted after controls =	8.83 tons/yr
Fines Screening	13.06 tons/yr x	100% emitted after controls =	13.06 tons/yr
Screening	82.78 tons/yr x	100% emitted after controls =	82.78 tons/yr
Conveying	9.01 tons/yr x	100% emitted after controls =	9.01 tons/yr
Total PM emissions after controls:			742.63 tons/yr

* * PM-10 emissions before controls * *

Storage		** see page 2 **			4.90 tons/yr	AP-42 Ch.11.2.3 (Fourth edition, no update)
Transporting		** see page 3 **			348.08 tons/yr	AP-42 Ch.13.2.2 (12/2003)
Loading & Unloading	700 ton/hr x	0.0006 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	1.88 tons/yr	AP-42 Ch.13.2.4 (Fifth edition, 1/95) calculated
Crushing (primary)	1100 ton/hr x	0.0007 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	3.37 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Crushing (secondary)	500 ton/hr x	0.0024 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	5.26 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Crushing (tertiary)	400 ton/hr x	0.0024 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	4.20 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Fines Screening	20 ton/hr x	0.071 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	6.22 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Screening	600 ton/hr x	0.015 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	39.42 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Conveyor Transfer	700 ton/hr x	0.0014 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	4.29 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Total PM-10 emissions before controls:					417.63 tons/yr	

* * PM-10 emissions after controls * *

Storage	4.90 tons/yr x	50% emitted after controls =	2.45 tons/yr
Transporting	348.08 tons/yr x	50% emitted after controls =	174.04 tons/yr
Loading & Unloading	1.88 tons/yr x	100% emitted after controls =	1.88 tons/yr
Crushing (primary)	3.37 tons/yr x	100% emitted after controls =	3.37 tons/yr
Crushing (secondary)	5.26 tons/yr x	100% emitted after controls =	5.26 tons/yr
Crushing (tertiary)	4.20 tons/yr x	100% emitted after controls =	4.20 tons/yr
Fines Screening	6.22 tons/yr x	100% emitted after controls =	6.22 tons/yr
Screening	39.42 tons/yr x	100% emitted after controls =	39.42 tons/yr
Conveying	4.29 tons/yr x	100% emitted after controls =	4.29 tons/yr
Total PM-10 emissions after controls:			241.13 tons/yr

** fugitive vs. nonfugitive PM Emissions* *

Storage	1.24 tons/yr x	50% emitted after controls =	0.62 tons/yr
Transporting	1224.07 tons/yr x	50% emitted after controls =	612.04 tons/yr
Loading / Unloading	1.88 tons/yr x	100% emitted after controls =	1.88 tons/yr
Total fugitive PM emissions:			614.53 tons/yr
Crushing (primary)	3.37 tons/yr x	100% emitted after controls =	3.37 tons/yr
Crushing (secondary)	11.04 tons/yr x	100% emitted after controls =	11.04 tons/yr
Crushing (tertiary)	8.83 tons/yr x	100% emitted after controls =	8.83 tons/yr
Fines Screening	13.06 tons/yr x	100% emitted after controls =	13.06 tons/yr
Screening	82.78 tons/yr x	100% emitted after controls =	82.78 tons/yr
Conveying:	9.01 tons/yr x	100% emitted after controls =	9.01 tons/yr
Total nonfugitive PM emissions:			128.10 tons/yr

** fugitive vs. nonfugitive PM-10 Emissions* *

Storage	4.90 tons/yr x	50% emitted after controls =	2.45 tons/yr
Transporting	348.08 tons/yr x	50% emitted after controls =	174.04 tons/yr
Loading / Unloading	1.88 tons/yr x	100% emitted after controls =	1.88 tons/yr
Total fugitive PM-10 emissions:			178.37 tons/yr
Crushing (primary)	3.37 tons/yr x	100% emitted after controls =	3.37 tons/yr
Crushing (secondary)	5.26 tons/yr x	100% emitted after controls =	5.26 tons/yr
Crushing (tertiary)	4.20 tons/yr x	100% emitted after controls =	4.20 tons/yr
Fines Screening	6.22 tons/yr x	100% emitted after controls =	6.22 tons/yr
Screening	39.42 tons/yr x	100% emitted after controls =	39.42 tons/yr
Conveying:	4.29 tons/yr x	100% emitted after controls =	4.29 tons/yr
Total nonfugitive PM-10 emissions:			62.77 tons/yr

** storage **

Storage emissions, which result from wind erosion, are determined by the following calculations:

$$E_f = 1.7 \cdot (s/1.5)^3 \cdot (365-p)/235 \cdot (f/15)$$

= 1.85 lb/acre/day

where s = 1.6 % silt content of material

p = 125 days of rain greater than or equal to 0.01 inches

f = 15 % of wind greater than or equal to 12 mph

$$E_p (\text{storage}) = E_f \cdot sc \cdot (40 \text{ cuft/ton}) / (2000 \text{ lb/ton}) / (43560 \text{ sqft/acre}) / (25 \text{ ft}) \cdot (365 \text{ day/yr})$$

= 1.24 tons/yr

where sc = 100 ,000 tons storage capacity

**** unpaved roads ****

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (12/2003).

$$\begin{aligned}
 & 50 \text{ trip/hr} \times \\
 & 0.35 \text{ mile/trip} \times \\
 & 2 \text{ (round trip) } \times \\
 & 8760 \text{ hr/yr} = \qquad \qquad 306600 \text{ miles per year}
 \end{aligned}$$

PM Emissions

$$\begin{aligned}
 E_f &= k \cdot [(s/12)^{0.7}] \cdot [(W/3)^b] \\
 &= 12.14 \text{ lb/mile} \\
 \text{where } k &= 4.9 \text{ (particle size multiplier for PM-10) (k=4.9 for PM-30 or TSP)} \\
 s &= 8.3 \text{ mean \% silt content of haul roads to and from quarry pit} \\
 b &= 0.45 \text{ Constant for PM-10 and PM-30 or TSP} \\
 W &= 40 \text{ tons average vehicle weight}
 \end{aligned}$$

$$E = \frac{12.14 \text{ lb/mi} \times 306600 \text{ mi/yr}}{2000 \text{ lb/ton}} = 1861.61 \text{ tons/yr}$$

Taking natural mitigation due to precipitation into consideration:

$$E_{\text{ext}} = E \cdot [(365-p)/365] = 1224.07 \text{ tons/yr}$$

where p = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

PM-10 Emissions

$$\begin{aligned}
 E_f &= k \cdot [(s/12)^{0.9}] \cdot [(W/3)^b] \\
 &= 3.45 \text{ lb/mile} \\
 \text{where } k &= 1.5 \text{ (particle size multiplier for PM-10) (k=4.9 for PM-30 or TSP)} \\
 s &= 8.3 \text{ mean \% silt content of haul roads to and from quarry pit} \\
 b &= 0.45 \text{ Constant for PM-10 and PM-30 or TSP} \\
 W &= 40 \text{ tons average vehicle weight}
 \end{aligned}$$

$$E = \frac{3.45 \text{ lb/mi} \times 306600 \text{ mi/yr}}{2000 \text{ lb/ton}} = 529.37 \text{ tons/yr}$$

Taking natural mitigation due to precipitation into consideration:

$$E_{\text{ext}} = E \cdot [(365-p)/365] = 348.08 \text{ tons/yr}$$

where p = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

The following calculations determine the amount of emissions created by truck loading and unloading of aggregate, based on 8760 hours of use and AP-42, Ch 13.2.4 (Fifth edition, 1/95).

$$E_f = k(0.0032)^k (U/5)^{1.3} / (M/2)^{1.4}$$

= 0.0006 lb/ton

where k = 0.74 (particle size multiplier)
U = 10 mile/hr mean wind speed
M = 10 % material moisture content