



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

TO: Interested Parties / Applicant
DATE: October 25, 2006
RE: Mishawaka Concrete / 141-23036-05293
FROM: Nisha Sizemore
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 03/23/06



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NEW SOURCE CONSTRUCTION AND MINOR SOURCE OPERATING PERMIT OFFICE OF AIR QUALITY

Mishawaka Concrete/Asphalt Recycling, Inc. – Plant 2 (Portable)

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the source 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.

This permit to operate 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 there under, as well as other applicable local, state, and federal requirements.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a MSOP under 326 IAC 2-6.1.

Operation Permit No.: 141-23036-05293	
Issued by: Original Signed By: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: October 25, 2006 Expiration Date: October 25, 2011

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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 portable concrete and asphalt crushing operation.

Authorized Individual:	President
Initial Source Address:	860 South Beiger Street, Mishawaka, Indiana 46544
Mailing Address:	860 South Beiger Street, Mishawaka, Indiana 46544
General Source Phone Number:	(574) 256-2473
SIC Code:	3299
Initial County Location:	St. Joseph
Source Location Status:	Nonattainment area for the 8-hour ozone standard Attainment for all other criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Minor Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary

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

(a) One (1) concrete/asphalt or other nonmetallic mineral stone recycling plant, to be constructed in 2006, used to crush waste concrete, asphalt, and/or other nonmetallic mineral stone and remove waste metal. This plant will have a maximum throughput capacity of 350 tons of concrete, asphalt, and/or other nonmetallic mineral stone waste per hour. The plant will consist of the following:

- (1) One (1) feed hopper;
- (2) One (1) jaw crusher;
- (3) One (1) two-deck screener;
- (4) One (1) impact crusher;
- (5) Five (5) mechanical conveyors;
- (6) Scrap metal storage pile;
- (7) Aggregate storage pile; and
- (8) Waste concrete, asphalt or other nonmetallic mineral pile.

Particulate emissions from the feed hopper, primary and secondary crushers, and screening equipment are controlled using a continuous wet suppression system. The crushers, conveyors, feed hopper, and screener are affected facilities subject to the requirements of 40 CFR 60, Subpart OOO.

(b) One (1) 650 kW diesel generator, to be installed in 2006, with a maximum heat input capacity of 5.52 MMBtu per hour.

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]

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.2 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.3 Affidavit of Construction [326 IAC 2-5.1-3(h)] [326 IAC 2-5.1-4]

This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 when prior to the start of operation, the following requirements are met:

- (a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as proposed in the application or the permit. The emission units covered in this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM if constructed as proposed.
- (b) 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 and an Operation Permit Validation Letter is issued.
- (c) The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.

B.4 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, 141-23036-05293, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

B.5 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

B.6 Enforceability

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.7 Severability

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.8 Property Rights or Exclusive Privilege

This permit does not convey any property rights of any sort or any exclusive privilege.

B.9 Duty to Provide Information

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.10 Certification

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an "authorized individual" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1)

B.11 Annual Notification [326 IAC 2-6.1-5(a)(5)]

- (a) An annual notification shall be submitted by an authorized individual 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) The annual notice 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,
Indianapolis, 46204-2251
- (c) 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.12 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 facility:
 - (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
Indianapolis, Indiana 46204-2251

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

- (b) A copy of the PMPs 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 PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) 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.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to 141-23036-05293 for this portable source and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.14 Termination of Right to Operate [326 IAC 2-6.1-7(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least ninety (90) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.15 Permit Renewal [326 IAC 2-6.1-7]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and shall include the information specified in 326 IAC 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:

- (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
- (2) 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) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as being needed to process the application.

B.16 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this .
- (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
Indianapolis, Indiana 46204-2251

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

B.17 Source Modification Requirement

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

B.18 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 the conditions of this permit;
- (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 facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

- (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.19 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.20 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, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.21 Credible Evidence [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

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]

- (a) 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 when operating in areas not listed in 326 IAC 5-1-1(c), unless otherwise stated in this permit:
 - (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (2) 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.
- (b) 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 when operating in areas listed in 326 IAC 5-1-1(c), unless otherwise stated in this permit:
 - (1) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (2) 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) 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 when operating in Lake County, unless otherwise stated in this permit:
- (1) 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.
 - (2) 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 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

C.6 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.7 Fugitive Dust Emissions [326 IAC 6.8-10-3]

Pursuant to 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements whenever the source is located in Lake County:

- (a) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
- (b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).
- (c) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
- (d) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.
- (e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.
- (f) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.
- (g) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).
- (h) There shall be a zero (0) percent 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 6.8-10-3 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 28, 2006. The Permittee shall:

- (l) Use a continuous wet suppression system to control particulate emissions from the feed hopper, crushers, and screening equipment; and
- (m) Apply water or other dust suppressant as necessary to all aggregate piles and paved and unpaved roads under ownership or full and direct control of the Permittee.

C.8 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on April 28, 2006. The Permittee shall:

- (a) Use a continuous wet suppression system to control particulate emissions from the feed hopper, crushers, and screening equipment; and
- (b) Apply water or other dust suppressant, as necessary to all aggregate piles and paved and unpaved roads under ownership or full and direct control of the Permittee.

Testing Requirements [326 IAC 2-6.1-5(a)(2)]

C.9 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
Indianapolis, Indiana 46204-2251

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 2-1.1-1(1).

- (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.

C.10 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
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (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 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.11 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 [326 IAC 2-6.1-5(a)(2)]

C.12 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.13 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.

Corrective Actions and Response Steps

C.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

(a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

(b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

within 180 days from the date on which this source commences operation.

The ERP does require the certification by an “authorized individual” as defined by 326 IAC 2-1.1(1).

(c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.

(d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.

(e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.

(f) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level.
[326 IAC 1-5-3]

C.15 Response to Excursions or Exceedances

(a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal

or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records;
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
 - (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.16 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.17 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.18 Emission Statement [326 IAC 2-6]

- (a) Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit an emission statement by July 1 following a calendar year when the source is located in Lake or Porter County and emits oxides of nitrogen into the ambient air equal to or greater than twenty-five (25) tons. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

The emission statement does require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

- (b) The emission statement 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.19 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.20 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
Indianapolis, Indiana 46204-2251
- (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, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do 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, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (e) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ . The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

Portable Source Requirement

C.21 Relocation of Portable Sources [326 IAC 2-14-4]

- (a) This permit is approved for operation in all areas in Indiana, except Clark and Floyd Counties. This determination is based on the NOx emission requirements of 326 IAC 10-1 (Nitrogen Oxides Control in Clark and Floyd Counties). Prior to relocating to Clark or Floyd Counties, the Permittee must submit a request and obtain a permit revision.
- (b) A request to relocate shall be submitted to IDEM, OAQ at least thirty (30) days prior to the intended date of relocation. This submittal shall include the following:
 - (1) A list of governmental officials entitled to receive notice of application to relocate. IC 13-15-3-1
 - (2) A list of adjacent landowners that the Permittee will send written notice to not more than ten (10) days after submission of the request to relocate. IC 13-15-8The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) A "Relocation Site Approval" letter shall be obtained prior to relocating.
- (d) The Permittee shall also notify the applicable local air pollution control agency when relocating to, or from, one the following:
 - (1) Madison County - (Anderson Office of Air Management)

- (2) City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County - (Evansville EPA)
 - (3) City of Gary - (Gary Department of Environmental Affairs)
 - (4) City of Hammond - (Hammond Department of Environmental Management)
 - (5) Marion County - (Indianapolis Office of Environmental Services)
 - (6) Vigo County - (Vigo County Air Pollution Control)
- (e) A valid operation permit consists of this document and any subsequent “Relocation Site Approval” letter specifying the current location of the portable plant.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-6.1-5(a)(1)] :

(a) One (1) concrete/asphalt or other nonmetallic mineral stone recycling plant, to be constructed in 2006, used to crush waste concrete, asphalt, and/or other nonmetallic mineral stone and remove waste metal. This plant will have a maximum throughput capacity of 350 tons of concrete, asphalt, and/or other nonmetallic mineral stone waste per hour. The plant will consist of the following:

- (1) One (1) feed hopper;
- (2) One (1) jaw crusher;
- (3) One (1) two-deck screener;
- (4) One (1) impact crusher;
- (5) Five (5) mechanical conveyors;
- (6) Scrap metal storage pile;
- (7) Aggregate storage pile; and
- (8) Waste concrete, asphalt, or other nonmetallic mineral pile.

Particulate emissions from the feed hopper, primary and secondary crushers, and screening equipment are controlled using a continuous wet suppression system. The crushers, conveyors, feed hopper, and screener are affected facilities subject to the requirements of 40 CFR 60, Subpart 000.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.1.1 Particulate [326 IAC 6-3] [326 IAC 6.5] [326 IAC 6.8]

- (a) Pursuant to 326 IAC 6-3-2(e), if this source relocates to a county not listed in 326 IAC 6.5 or 326 IAC 6.8, the allowable particulate emission rate from the concrete, asphalt, or other nonmetallic mineral stone recycling plant shall not exceed 64.8 pounds per hour when operating at a process weight rate of 350 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40$$

where E = rate of emission in pounds per hour;
and P = process weight rate in tons per hour

- (b) Pursuant to 326 IAC 6.5-1-2(g), the concrete, asphalt, or other nonmetallic mineral recycling plant shall comply with the opacity limits contained in Conditions C.3(a) or (b) and with the fugitive dust requirements contained in Condition C.6 when operating in Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne Counties.
- (c) Pursuant to 326 IAC 6.8-1-2(g), the concrete, asphalt, or other nonmetallic mineral recycling plant shall comply with the opacity limits contained in Condition C.3(c) and with the fugitive dust requirements contained in Condition C.6 when operating in Lake County.

D.1.2 General Provisions Relating to the New Source Performance Standards for Nonmetallic Mineral Processing Plants [326 IAC 12] [40 CFR 60, Subpart A]

(a) Pursuant to 40 CFR 60.670(f), the Permittee shall comply with the provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12 for the concrete and asphalt or other nonmetallic mineral stone recycling plant, as specified in Table 1 of 40 CFR 60.670.

(b) Pursuant to 40 CFR 60.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
 Compliance Branch, Office of Air Quality
 100 North Senate Avenue
 Indianapolis, Indiana 46204-2251

D.1.3 New Source Performance Standards (NSPS) for Nonmetallic Mineral Processing Plants [326 IAC 12] [40 CFR 60, Subpart OOO]

Pursuant to 40 CFR 60.670, the Permittee shall comply with the following provisions of 40 CFR 60, Subpart OOO for the concrete and asphalt recycling plant:

Subpart OOO—Standards of Performance for Nonmetallic Mineral Processing Plants

§ 60.670 Applicability and designation of affected facility.

(a)(1) Except as provided in paragraphs (a)(2), (b), (c), and (d) of this section, the provisions of this subpart are applicable to the following affected facilities in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station. Also, crushers and grinding mills at hot mix asphalt facilities that reduce the size of nonmetallic minerals embedded in recycled asphalt pavement and subsequent affected facilities up to, but not including, the first storage silo or bin are subject to the provisions of this subpart.

(e) An affected facility under paragraph (a) of this section that commences construction, reconstruction, or modification after August 31, 1983 is subject to the requirements of this part.

(f) Table 1 of this subpart specifies the provisions of subpart A of this part 60 that apply and those that do not apply to owners and operators of affected facilities subject to this subpart.

Table 1. Applicability of Subpart A to Subpart OOO

Subpart A reference	Applies to Subpart OOO	Comment
60.1, Applicability.....	Yes.....	
60.2, Definitions.....	Yes.....	
60.3, Units and abbreviations.....	Yes.....	
60.4, Address:		
(a).....	Yes.....	
(b).....	Yes.....	
60.5, Determination of construction or modification.	Yes.....	
60.6, Review of plans.....	Yes.....	
60.7, Notification and recordkeeping..	Yes.....	Except in (a)(2) report of anticipated date of initial startup is not required
		(§ 60.676(h)).
60.8, Performance tests.....	Yes.....	Except in (d), after 30 days notice for an initially scheduled performance test, any rescheduled performance test requires 7 days notice, not 30 days

		(§ 60.675(g)).
60.9, Availability of information.....	Yes.....	
60.10, State authority.....	Yes.....	
60.11, Compliance with standards and maintenance requirements.	Yes.....	Except in (b) under certain conditions (§§ 60.675 (c)(3) and (c)(4)), Method 9 observation may be reduced from 3 hours to 1 hour. Some affected facilities exempted from Method 9 tests (§ 60.675(h)).
60.12, Circumvention.....	Yes.....	
60.13, Monitoring requirements.....	Yes.....	
60.14, Modification.....	Yes.....	
60.15, Reconstruction.....	Yes.....	
60.16, Priority list.....	Yes.....	
60.17, Incorporations by reference....	Yes.....	
60.18, General control device.....	No.....	Flares will not be used to comply with the emission limits.
60.19, General notification and reporting requirements.	Yes.....	

[51 FR 31337, Aug. 1, 1985, as amended at 62 FR 31359, June 9, 1997]

§ 60.671 Definitions.

All terms used in this subpart, but not specifically defined in this section, shall have the meaning given them in the Act and in subpart A of this part.

Bagging operation means the mechanical process by which bags are filled with nonmetallic minerals.

Belt conveyor means a conveying device that transports material from one location to another by means of an endless belt that is carried on a series of idlers and routed around a pulley at each end.

Bucket elevator means a conveying device of nonmetallic minerals consisting of a head and foot assembly which supports and drives an endless single or double strand chain or belt to which buckets are attached.

Building means any frame structure with a roof.

Capacity means the cumulative rated capacity of all initial crushers that are part of the plant.

Capture system means the equipment (including enclosures, hoods, ducts, fans, dampers, etc.) used to capture and transport particulate matter generated by one or more process operations to a control device.

Control device means the air pollution control equipment used to reduce particulate matter emissions released to the atmosphere from one or more process operations at a nonmetallic mineral processing plant.

Conveying system means a device for transporting materials from one piece of equipment or location to another location within a plant. Conveying systems include but are not limited to the following: Feeders, belt conveyors, bucket elevators and pneumatic systems.

Crusher means a machine used to crush any nonmetallic minerals, and includes, but is not limited to, the following types: jaw, gyratory, cone, roll, rod mill, hammermill, and impactor.

Enclosed truck or railcar loading station means that portion of a nonmetallic mineral processing plant where nonmetallic minerals are loaded by an enclosed conveying system into enclosed trucks or railcars.

Fixed plant means any nonmetallic mineral processing plant at which the processing equipment specified in §60.670(a) is attached by a cable, chain, turnbuckle, bolt or other means (except electrical connections) to any anchor, slab, or structure including bedrock.

Fugitive emission means particulate matter that is not collected by a capture system and is released to the atmosphere at the point of generation.

Grinding mill means a machine used for the wet or dry fine crushing of any nonmetallic mineral. Grinding mills include, but are not limited to, the following types: hammer, roller, rod, pebble and ball, and fluid energy. The grinding mill includes the air conveying system, air separator, or air classifier, where such systems are used.

Initial crusher means any crusher into which nonmetallic minerals can be fed without prior crushing in the plant.

Nonmetallic mineral means any of the following minerals or any mixture of which the majority is any of the following minerals:

(a) Crushed and Broken Stone, including Limestone, Dolomite, Granite, Traprock, Sandstone, Quartz, Quartzite, Marl, Marble, Slate, Shale, Oil Shale, and Shell.

(b) Sand and Gravel.

(c) Clay including Kaolin, Fireclay, Bentonite, Fuller's Earth, Ball Clay, and Common Clay.

(d) Rock Salt.

(e) Gypsum.

(f) Sodium Compounds, including Sodium Carbonate, Sodium Chloride, and Sodium Sulfate.

(g) Pumice.

(h) Gilsonite.

(i) Talc and Pyrophyllite.

(j) Boron, including Borax, Kernite, and Colemanite.

(k) Barite.

(l) Fluorospar.

(m) Feldspar.

(n) Diatomite.

(o) Perlite.

(p) Vermiculite.

(q) Mica.

(r) Kyanite, including Andalusite, Sillimanite, Topaz, and Dumortierite.

Nonmetallic mineral processing plant means any combination of equipment that is used to crush or grind any nonmetallic mineral wherever located, including lime plants, power plants, steel mills, asphalt concrete plants, portland cement plants, or any other facility processing nonmetallic minerals except as provided in §60.670 (b) and (c).

Portable plant means any nonmetallic mineral processing plant that is mounted on any chassis or skids and may be moved by the application of a lifting or pulling force. In addition, there shall be no cable, chain, turnbuckle, bolt or other means (except electrical connections) by which any piece of equipment is attached or clamped to any anchor, slab, or structure, including bedrock that must be removed prior to the application of a lifting or pulling force for the purpose of transporting the unit.

Production line means all affected facilities (crushers, grinding mills, screening operations, bucket elevators, belt conveyors, bagging operations, storage bins, and enclosed truck and railcar loading stations) which are directly connected or are connected together by a conveying system.

Screening operation means a device for separating material according to size by passing undersize material through one or more mesh surfaces (screens) in series, and retaining oversize material on the mesh surfaces (screens).

Size means the rated capacity in tons per hour of a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station; the total surface area of the top screen of a screening operation; the width of a conveyor belt; and the rated capacity in tons of a storage bin.

Stack emission means the particulate matter that is released to the atmosphere from a capture system.

Storage bin means a facility for storage (including surge bins) or nonmetallic minerals prior to further processing or loading.

Transfer point means a point in a conveying operation where the nonmetallic mineral is transferred to or from a belt conveyor except where the nonmetallic mineral is being transferred to a stockpile.

Truck dumping means the unloading of nonmetallic minerals from movable vehicles designed to transport nonmetallic minerals from one location to another. Movable vehicles include but are not limited to: trucks, front end loaders, skip hoists, and railcars.

Vent means an opening through which there is mechanically induced air flow for the purpose of exhausting from a building air carrying particulate matter emissions from one or more affected facilities.

Wet mining operation means a mining or dredging operation designed and operated to extract any nonmetallic mineral regulated under this subpart from deposits existing at or below the water table, where the nonmetallic mineral is saturated with water.

Wet screening operation means a screening operation at a nonmetallic mineral processing plant which removes unwanted material or which separates marketable fines from the product by a washing process which is designed and operated at all times such that the product is saturated with water.

[51 FR 31337, Aug. 1, 1985, as amended at 62 FR 31359, June 9, 1997]

§ 60.672 Standard for particulate matter.

(b) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under §60.11 of this part, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraphs (c), (d), and (e) of this section.

(c) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under §60.11 of this part, no owner or operator shall 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 percent opacity.

(d) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this section.

[51 FR 31337, Aug. 1, 1985, as amended at 62 FR 31359, June 9, 1997; 65 FR 61778, Oct. 17, 2000]

§ 60.675 Test methods and procedures.

(a) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b). Acceptable alternative methods and procedures are given in paragraph (e) of this section.

(c)(1) In determining compliance with the particulate matter standards in §60.672 (b) and (c), the owner or operator shall use Method 9 and the procedures in §60.11, with the following additions:

(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).

(ii) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.

(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.

(3) When determining compliance with the fugitive emissions standard for any affected facility described under §60.672(b) of this subpart, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:

(i) There are no individual readings greater than 10 percent opacity; and

(ii) There are no more than 3 readings of 10 percent for the 1-hour period.

(4) When determining compliance with the fugitive emissions standard for any crusher at which a capture system is not used as described under §60.672(c) of this subpart, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:

(i) There are no individual readings greater than 15 percent opacity; and

(ii) There are no more than 3 readings of 15 percent for the 1-hour period.

(e) The owner or operator may use the following as alternatives to the reference methods and procedures specified in this section:

(1) For the method and procedure of paragraph (c) of this section, if emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used:

(i) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream.

(ii) Separate the emissions so that the opacity of emissions from each affected facility can be read.

(g) If, after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting any rescheduled performance test required in this section, the owner or operator of an affected facility shall submit a notice to the Administrator at least 7 days prior to any rescheduled performance test.

[54 FR 6680, Feb. 14, 1989, as amended at 62 FR 31360, June 9, 1997]

§ 60.676 Reporting and recordkeeping.

(f) The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with §60.672(b), (c), and (f), and reports of observations using Method 22 to demonstrate compliance with §60.672(e).

(g) The owner or operator of any screening operation, bucket elevator, or belt conveyor that processes saturated material and is subject to §60.672(h) and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the 10 percent opacity limit in §60.672(b) and the emission test requirements of §60.11 and this subpart. Likewise a screening operation, bucket elevator, or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the no visible emission limit in §60.672(h).

(i) A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator.

(1) For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the owner or operator to the Administrator. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.

(2) For portable aggregate processing plants, the notification of the actual date of initial startup shall include both the home office and the current address or location of the portable plant.

(j) The requirements of this section remain in force until and unless the Agency, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such States. In that event, affected facilities within the State will be relieved of the obligation to comply with the reporting requirements of this section, provided that they comply with requirements established by the State.

[51 FR 31337, Aug. 1, 1985, as amended at 54 FR 6680, Feb. 14, 1989; 62 FR 31360, June 9, 1997; 65 FR 61778, Oct. 17, 2000]

SECTION D.2

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description [326 IAC 2-6.1-5(a)(1)]:

- (b) One (1) 650 KW diesel generator, to be installed in 2006, with a maximum heat input capacity of 5.52 MMBtu 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 [326 IAC 2-6.1-5(a)(1)]

D.2.1 Particulate Emissions [326 IAC 6.5-1-2][326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.5-1-2(a), particulate matter (PM) emissions from the diesel generator shall be limited to 0.03 grains per dry standard cubic foot of exhaust air whenever this portable plant is located in Dearborn, Dubois, Howard, Lake, Marion, St. Joseph, Vanderburgh, Vigo, and Wayne counties.

D.2.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

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

D.2.3 Visible Emissions Notations

- (a) Visible emission notations of the diesel generator's stack exhaust shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

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

D.2.4 Record Keeping Requirements

- (a) To document compliance with Condition D.2.3, the Permittee shall maintain records of visible emission notations of the diesel generator stack exhaust once per day.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH**

**MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	Mishawaka Concrete/Asphalt Recycling, Inc. – Plant 2
Address:	860 South Beiger Street
City:	Mishawaka, Indiana 46544
Phone #:	(574) 256-2473
MSOP #:	141-23036-05293

I hereby certify that Mishawaka Concrete/Asphalt Recycling, Inc. – Plant 2 is
G still in operation.
G no longer in operation.

I hereby certify that Mishawaka Concrete/Asphalt Recycling, Inc. Plant 2 is
G in compliance with the requirements of MSOP 141-23036-05293.
G not in compliance with the requirements of MSOP 141-23036-05293.

Authorized Individual (typed):
Title:
Signature:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

MALFUNCTION REPORT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
FAX NUMBER - 317 233-6865**

**This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6
and to qualify for the exemption under 326 IAC 1-6-4.**

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 100TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERM LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF "MALFUNCTION" AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: _____ PHONE NO. () _____
LOCATION: (CITY AND COUNTY) _____
PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP: _____
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: _____

DATE/TIME MALFUNCTION STARTED: ____/____/20____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE ____/____/20____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: _____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____
INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

MALFUNCTION REPORTED BY: _____ TITLE: _____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 “Malfunction” definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

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

**Addendum to the Technical Support Document
for a New Source Construction and Minor Source Operating Permit (MSOP)**

Source Background and Description

Source Name: Mishawaka Concrete/Asphalt Recycling, Inc. – Plant 2
Initial Source Location: 860 South Beiger Street, Mishawaka, Indiana 46544
Initial County: St. Joseph
SIC Code: 3299
Operation Permit No.: M141-23036-05293
Permit Reviewer: ERG/SE

On September 5, 2006, the Office of Air Quality (OAQ) had a notice published in the South Bend Tribune, South Bend, Indiana, stating that Mishawaka Concrete/Asphalt Recycling, Inc. had applied for a Minor Source Operating Permit (MSOP) to construct and operate a portable concrete, asphalt, and/or other nonmetallic mineral stone processing plant. The notice also stated that OAQ proposed to issue a permit for this operation 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.

On September 22, 2006, Mishawaka Concrete/Asphalt Recycling, Inc. submitted comments on the proposed MSOP. Deleted text is shown in ~~strikeout~~, while text added to the permit is shown in **bold**.

Comment #1:

Mishawaka Concrete/Asphalt Recycling, Inc. has a permit to operate another portable nonmetallic mineral stone crushing plant (Plant ID No. 141-03122) and requests to identify this source as Plant 2 in Condition A.2, in the Facility Description in Section D.1, in the TSD, and in Appendix A of the TSD in order to avoid confusion when referring to one plant or the other.

Response to Comment #1:

No changes have been made to the TSD because the OAQ prefers that the Technical Support Document reflect the permit that was on public notice. Changes to the permit or technical support material that occur after the public notice are documented in this Addendum to the Technical Support Document. This accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision. Mishawaka Concrete/Asphalt Recycling, Inc. confirmed that the two plants will operate completely independently from one another and will not be operating at the same location. Therefore, the name of the source showing Plant 2 has been added throughout the permit.

**NEW SOURCE CONSTRUCTION AND
MINOR SOURCE OPERATING PERMIT
OFFICE OF AIR QUALITY**

Mishawaka Concrete/Asphalt Recycling, Inc. – **Plant 2**
(Portable)

Comment #2:

Condition A.2 specifies the manufacturer of the primary crusher (Lipman) and the secondary crusher (Eagle). Mishawaka Concrete/Asphalt Recycling, Inc. stated that this information is based on preliminary design information included in the permit application, and that as the plant is constructed, it may become necessary to purchase and install a primary jaw crusher and/or secondary impact crusher that would be functionally equivalent but not manufactured by Lipman and/or Eagle. Mishawaka Concrete/Asphalt Recycling, Inc. also stated that any crushing equipment installed regardless of the manufacturer would not cause Plant 2 to exceed 350 tons per hour throughput or affect the proposed fugitive dust control plans. Therefore, Mishawaka Concrete/Asphalt Recycling, Inc. requests to add the language “or equivalent manufacturer” to the emission unit descriptions for the primary and secondary crushers.

Response to Comment #2:

No changes have been made to the TSD because the OAQ prefers that the Technical Support Document reflect the permit that was on public notice. Changes to the permit or technical support material that occur after the public notice are documented in this Addendum to the Technical Support Document. This accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision. Since the manufacturer of the individual emission units does not affect the permitting level or the applicability of any State or Federal regulations, IDEM OAQ has deleted the manufacturer names from the emission unit descriptions. The following changes have been made to the permit:

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) concrete/asphalt or other nonmetallic mineral stone recycling plant, to be constructed in 2006, used to crush waste concrete, asphalt, and/or other nonmetallic mineral stone and remove waste metal. This plant will have a maximum throughput capacity of 350 tons of concrete, asphalt, and/or other nonmetallic mineral stone waste per hour. The plant will consist of the following:
 - (1) One (1) feed hopper;
 - (2) One (1) ~~Lipman~~ jaw crusher;
 - (3) One (1) two-deck screener;
 - (4) One (1) ~~Eagle 1400~~ impact crusher;
 - ...

SECTION D.1

EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-6.1-5(a)(1)] :

- (a) One (1) concrete/asphalt or other nonmetallic mineral stone recycling plant, to be constructed in 2006, used to crush waste concrete, asphalt, and/or other nonmetallic mineral stone and remove waste metal. This plant will have a maximum throughput capacity of 350 tons of concrete, asphalt, and/or other nonmetallic mineral stone waste per hour. The plant will consist of the following:
 - ...
 - (2) One (1) ~~Lipman~~ jaw crusher;
 - (3) One (1) two-deck screener;
 - (4) One (1) ~~Eagle 1400~~ impact crusher;
 - ...

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

Comment #3:

Mishawaka Concrete/Asphalt Recycling, Inc. commented that Conditions D.1.1(b) and (c) describe compliance requirements with opacity limits and fugitive dust control requirements in various Indiana counties, and that there may be either a typographical error or an omission in both paragraphs. Mishawaka Concrete/Asphalt Recycling, Inc. requests that the cross-reference to Condition C.6 should be corrected in paragraph (b) to read “Condition C.8” or “Conditions C.6 and C.8”. Mishawaka Concrete/Asphalt Recycling, Inc. also requests that the cross-reference to Condition C.6 should be corrected in paragraph (c) to read “Condition C.7” or “Conditions C.6 and C.7”.

Response to Comment #3:

Conditions D.1.1(b) and (c) refer to 326 IAC 6.5-1-2(g) and 326 IAC 6.8-1-2(g), respectively. Pursuant to 326 IAC 6.5-1-2(g) and 326 IAC 6.8-1-2(g) state that 326 IAC 6-4 applies to mineral aggregate operations in Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, Wayne, or Lake Counties. Because these rules require compliance with 326 IAC 6-4, and 326 IAC 6-4 is in Condition C.6 of the permit, the references to Condition C.6 are correct. Conditions C.7 and C.8 refer to rules that are not discussed in 326 IAC 6.5-1-2(g) and 326 IAC 6.8-1-2(g). Therefore, no changes have been made to the permit as a result of this comment.

Comment #4:

Mishawaka Concrete/Asphalt Recycling, Inc. commented that page 4 of the TSD provides an emission summary table under the section Source Status, and that the parenthetical qualifier included above the table describes it as “emissions after controls”. Mishawaka Concrete/Asphalt Recycling, Inc. also commented that the values listed in the table for PM and PM10 (119.9 and 47.1 tpy) are the uncontrolled emission rates. Mishawaka Concrete/Asphalt Recycling, Inc. requests to revise these values to 33.3 and 15.4 tpy, respectively, to reflect PM and PM10 emissions after controls.

Response to Comment #4:

IDEM agrees. However, no changes have been made to the TSD because the OAQ prefers that the Technical Support Document reflect the permit that was on public notice. Changes to the permit or technical support material that occur after the public notice are documented in this Addendum to the Technical Support Document. This accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision. The table on Page 4 of the TSD should read as follows:

Pollutant	Emissions (tons/year)
PM	119.9 33.3
PM10	47.1 15.4
SO ₂	12.3
VOC	2.18
CO	20.6
NO _x	77.4
Combination HAPs	0.038

Comment #5:

Mishawaka Concrete/Asphalt Recycling, Inc. commented that page 6 of the TSD describes fugitive dust control requirements under 326 IAC 6-5 and 6.8-10, and that both paragraphs describe the requirement to employ water or other dust suppressant as necessary to control dust from piles and roadways. Mishawaka Concrete/Asphalt Recycling, Inc. requests that these paragraphs be amended in order to be consistent with the relevant permit conditions by adding the language “under ownership or full and direct control of the Permittee”.

Response to Comment #5:

IDEM agrees, however, no changes have been made to the TSD because the OAQ prefers that the Technical Support Document reflect the permit that was on public notice. Changes to the permit or technical support material that occur after the public notice are documented in this Addendum to the Technical Support Document. This accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision. Because the TSD just documents the applicability of State and Federal rules and summarizes the applicable requirements, it does not have to have the same exact wording as the permit.

Upon further review, the OAQ has decided to make the following revisions to the permit (bolded language has been added, the language with a line through it has been deleted).

1. This source is a portable source. Condition A.2 has been revised as follows:

A.2 Emission Units and Pollution Control Equipment Summary

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

...

2. The following sentence is included as discussion in the TSD and was included in Condition D.1.1(a) in error. Condition D.1.1(a) has been revised as follows:

D.1.1 Particulate [326 IAC 6-3] [326 IAC 6.5] [326 IAC 6.8]

(a) ...

~~The potential to emit particulate emissions from this plant is less than 64.8 pounds per hour; therefore, the source is in compliance with this rule.~~

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a New Source Construction and Minor Source Operating Permit

Source Background and Description

Source Name:	Mishawaka Concrete/Asphalt Recycling, Inc.
Initial Source Location:	860 South Beiger Street, Mishawaka, Indiana 46544
County:	St. Joseph
SIC Code:	3299
Operation Permit No.:	M141-23036-05293
Permit Reviewer:	ERG/SE

The Office of Air Quality (OAQ) has reviewed an application from Mishawaka Concrete/Asphalt Recycling, Inc. (Mishawaka) relating to the construction and operation of a portable concrete, asphalt and other nonmetallic mineral stone crushing operation.

New Emission Units and Pollution Control Equipment

The source will consist of the following emission units and pollution control devices:

- (a) One (1) concrete/asphalt or other nonmetallic mineral stone recycling plant, to be constructed in 2006, used to crush waste concrete, asphalt, and/or other nonmetallic mineral stone and remove waste metal. This plant will have a maximum throughput capacity of 350 tons of concrete, asphalt, and/or other nonmetallic mineral stone waste per hour. The plant will consist of the following:

- (1) One (1) feed hopper;
- (2) One (1) Lipman jaw crusher;
- (3) One (1) two-deck screener;
- (4) One (1) Eagle 1400 impact crusher;
- (5) Five (5) mechanical conveyors;
- (6) Scrap metal storage pile;
- (7) Aggregate storage pile; and
- (8) Waste concrete, asphalt or other nonmetallic mineral pile.

Particulate emissions from the feed hopper, primary and secondary crushers, and screening equipment are controlled using a continuous wet suppression system. The crushers, conveyors, feed hopper, and screener are affected facilities subject to the requirements of 40 CFR 60, Subpart OOO.

- (b) One (1) 650 kW diesel generator, to be installed in 2006, with a maximum heat input capacity of 5.52 MMBtu per hour.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted emission units operating at this source during this review process.

Existing Approvals

This is the first air approval issued to this source.

Enforcement Issue

There are no enforcement actions pending.

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.

A complete application for the purposes of this review was received on April 28, 2006.

Emission Calculations

See Appendix A of this document for detailed emission calculations (Appendix A, pages 1 and 2).

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/year)
PM*	119.9
PM10*	47.1
SO ₂	12.3
VOC	2.18
CO	20.6
NO _x	77.4

*Total does not include fugitive emissions from paved/unpaved roads.

HAPs	Potential to Emit (tons/year)
Total	0.038

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM, PM10, and NO_x are greater than twenty-five (25) tons per year. The potential to emit PM10 and NO_x are less than one hundred (100) tons per year. The potential to emit PM is less than two hundred fifty (250) tons per year. The potential to emit VOC is less than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. A MSOP will be issued.

- (b) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-1.1-1(16)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7 (Part 70 Permit Program).
- (c) **Fugitive Emissions**
Since this type of operation is not in one of the twenty-eight (28) listed source categories under 326 IAC 2-2 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 initially located in St. Joseph County.

Pollutant	Status
PM10	Attainment
PM2.5	Attainment
SO ₂	Attainment
NO ₂	Attainment
8-hour Ozone	Nonattainment
CO	Attainment
Lead	Attainment

Note: On August 7, 2006, a temporary emergency rule took effect redesignating Delaware, Greene, Jackson, Vanderburgh, Vigo and Warrick Counties to attainment for the eight-hour ozone standard, redesignating Lake County to attainment for the sulfur dioxide standard, and revoking the one-hour ozone standard in Indiana. The Indiana Air Pollution Control Board has approved a permanent rule revision to incorporate these changes into 326 IAC 1-4-1. The permanent revision to 326 IAC 1-4-1 will take effect prior to the expiration of the emergency rule.

- (a) St. Joseph County has been classified as unclassifiable or attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM 2.5 emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions. See the State Rule Applicability – Entire Source section.
- (b) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are precursors for the formation of ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to the ozone standards. St. Joseph County has been designated as nonattainment for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability – Entire Source section.
- (c) **Fugitive Emissions**
Since this type of operation is not in one of the 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.

Portable Source

- (a) **Initial Location**
This is a portable source and its initial location is 860 South Beiger Street, Mishawaka,

Indiana 46544.

- (b) **PSD and Emission Offset Requirements**
The emissions from this portable source were reviewed under the requirements of the Prevention of Significant Deterioration (PSD) 326 IAC 2-2 and Emission Offset 326 IAC 2-3.
- (c) This source may not relocate to Clark or Floyd Counties without prior approval from IDEM, OAQ. If the source relocated to Clark or Floyd Counties, the generator would be subject to 326 IAC 10-1 (Nitrogen Oxides Control in Clark or Floyd Counties). Pursuant to 326 IAC 10-1-1(a)(3), the generator would have to comply with the requirements of 326 IAC 10-1 or best available control technology (BACT), whichever is more stringent. For this reason, prior approval from IDEM, OAQ is required before this source is allowed to relocate to Clark or Floyd Counties.
- (d) **Fugitive Emissions**
Since this type of operation is not one of the twenty-eight (28) listed sources 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.

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/year)
PM	119.9
PM10	47.1
SO ₂	12.3
VOC	2.18
CO	20.6
NO _x	77.4
Combination HAPs	0.038

- (a) This new source is **not** a major stationary source because no attainment pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 listed source categories. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.
- (b) This new source is **not** a major stationary source because PM10 (as surrogate for PM2.5), VOC, and NO_x are 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 to this portable source no matter which county it is located in.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This new source is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) All criteria pollutants are less than 100 tons per year,
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
- (c) any combination of HAPs is less than 25 tons per year.

This is the first air approval issued to this source.

Federal Rule Applicability

- (a) This concrete/asphalt processing plant is subject to the New Source Performance Standard 40 CFR 60, Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants (326 IAC 12) because this plant meets the definition of a nonmetallic mineral processing plant provided in 40 CFR 60.671 and will be constructed after the August 31, 1983 applicability date.

The crushers, conveyors, feed hopper, and screener are affected facilities subject to the requirements of 40 CFR 60, Subpart OOO. Nonapplicable portions of this NSPS will not be included in the permit. The affected facilities are subject to the following portions of 40 CFR 60, Subpart OOO:

- (1) 40 CFR 60.670(a)(1), (e), (f), and Table 1
- (2) 40 CFR 60.671
- (3) 40 CFR 60.672(b), (c), and (d)
- (4) 40 CFR 60.675(a), (c)(1), (c)(3), (c)(4), (e), and (g)
- (5) 40 CFR 60.676(f), (g), (i), and (j).

The provisions of 40 CFR 63 Subpart A – General Provisions, which are incorporated as 326 IAC 12, apply to the crushers, conveyors, feed hopper, and screener except when otherwise specified in 40 CFR 60, Subpart OOO.

- (b) There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in this permit.
- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) included in this permit.

The requirements of 40 CFR 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE) are not included in this permit for the diesel generator. This source is not a major source under Section 112 of the Clean Air Act.

State Rule Applicability – Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration), 326 IAC 2-3 (Emission Offset), and 326 IAC 2-1.1-5 (Nonattainment Area New Source Review)

This portable source will be constructed in 2006. Since it is not in one of the twenty-eight (28) listed source categories and is not regulated under a New Source Performance Standard that was 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.

As a portable plant, this source may be relocated to any county in Indiana, excluding Clark and Floyd counties. The potential to emit all regulated pollutants is less than the PSD threshold of 250 tons per year. Therefore, the requirements of 326 IAC 2-2 are not applicable.

The potential to emit the nonattainment pollutants PM10 (as surrogate for PM2.5), VOC, NOx, and SO₂ are all less than 100 tons per year. Therefore, the requirements of 326 IAC 2-3 and 326 IAC 2-1.1-5 are not applicable.

326 IAC 8-6 (Organic Solvent Emission Limitations)

This source is not subject to the requirements of 326 IAC 8-6 because it will be constructed after January 1, 1980.

326 IAC 6-4 (Fugitive Dust Emissions)

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).

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

This source is subject to the requirements of 326 IAC 6-5 because it is a source of fugitive particulate emissions that will be constructed after December 13, 1985. Pursuant to 326 IAC 6-5-3, Mishawaka is required to prepare, implement and revise as necessary a control plan for fugitive particulate emissions. In their application for this permit, Mishawaka indicated they will use a continuous wet suppression system for the feed hopper, crushers, and screening equipment, and will apply water or other dust suppressant to aggregate piles and paved/unpaved roads as necessary to prevent fugitive particulate emissions.

326 IAC 6.8-10 (Lake County: Fugitive Particulate Matter)

Although this source will initially be located in St. Joseph County, it may relocate to Lake County. Since the fugitive particulate emissions will exceed 5 tons per year and this source will have material transfer operations, storage piles, and paved/unpaved roads, this source will be subject to the requirements of 326 IAC 6.8-10 if it is relocated to Lake County.

Pursuant to 326 IAC 6.8-10-3, the particulate matter emissions from source wide activities shall meet the following requirements whenever the plant is located in Lake County:

- (a) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
- (b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).
- (c) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
- (d) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.
- (e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.
- (f) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.
- (g) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).
- (h) There shall be a zero (0) percent 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 6.8-10-3 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 28, 2006. The plan includes use of a continuous wet suppression system for the feed hopper, crushers, and screening equipment, and the application of water or other dust suppressant to aggregate piles and paved/unpaved roads as

necessary to prevent fugitive particulate emissions.

326 IAC 2-6 (Emission Reporting)

When located in any county except Lake and Porter, this source is not subject to the emission reporting requirements in 326 IAC 2-6 because it will not be required to operate under 326 IAC 2-7 (Part 70 Permit Program) and does not have the potential to emit equal to or greater than five (5) tons per year of lead. However, if this source relocates to either Lake or Porter County, it will be subject to the emission reporting requirements in 326 IAC 2-7 because it has the potential to emit greater than twenty-five (25) tons per year of NOx.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The operation of this concrete/asphalt or other nonmetallic mineral stone recycling plant will emit less than 10 tons per year of a single HAP and less than 25 tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 5-1 (Opacity Limitations)

- (a) 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 when operating in areas not listed in 326 IAC 5-1-1(c), unless otherwise stated in this permit:
 - (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (2) 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.
- (b) 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 when operating in areas listed in 326 IAC 5-1-1(c), unless otherwise stated in this permit:
 - (1) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (2) 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) 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 when operating in Lake County, unless otherwise stated in this permit:
 - (1) 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.
 - (2) 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.

State Rule Applicability – Concrete/Asphalt or Other Nonmetallic Mineral Stone Recycling Plant

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

This asphalt, concrete, or other nonmetallic mineral recycling plant is subject to an opacity limit pursuant to 40 CFR 60, Subpart OOO. However, the particulate emission limit in 40 CFR 60,

Subpart 000 applies to stack emissions, and the emissions from this plant are fugitive. Therefore, particulate emissions from this plant are not limited by 40 CFR 60, Subpart 000. If this source relocates to a county not listed in 326 IAC 6.5 or 326 IAC 6.8, the allowable particulate emission rate from the concrete, asphalt, or other nonmetallic mineral stone recycling plant shall not exceed 64.8 pounds per hour when operating at a process weight rate of 350 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40$$

where E = rate of emission in pounds per hour;
and P = process weight rate in tons per hour

The potential to emit particulate emissions from this plant is less than 64.8 pounds per hour; therefore, the source is in compliance with this rule.

326 IAC 6.5-1 (Particulate Matter Limitations Except Lake County)

This concrete, asphalt, or other nonmetallic mineral stone recycling plant will initially be located in St. Joseph County; has potential particulate emissions greater than 100 tons per year and actual particulate emissions greater than 10 tons per year; is a mineral aggregate operation that is not enclosed; and as previously discussed, particulate emissions are not limited by a more stringent particulate emission limitation in 40 CFR 60, Subpart 000. Pursuant to 326 IAC 6.5-1-2(g), the concrete, asphalt, or other nonmetallic mineral stone recycling plant shall comply with the requirements of 326 IAC 2, 326 IAC 5-1, and 326 IAC 6-4 when operating in Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne Counties.

326 IAC 6.8-1 (Particulate Matter Limitations for Lake County)

This concrete, asphalt, or other nonmetallic mineral stone recycling plant may relocate to Lake County; has potential particulate emissions greater than 100 tons per year and actual particulate emissions greater than 10 tons per year; is a mineral aggregate operation that is not enclosed; and as previously discussed, particulate emissions are not limited by a more stringent particulate emission limitation in 40 CFR 60, Subpart 000. Pursuant to 326 IAC 6.8-1-2(g), the concrete, asphalt, or other nonmetallic mineral stone recycling plant shall comply with the requirements of 326 IAC 2, 326 IAC 5-1, and 326 IAC 6-4 when operating in Lake County.

State Rule Applicability - Diesel Generator

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

The generator is not subject to the requirements of 326 IAC 7-1.1-2 because this unit does not have a potential to emit of equal to or greater than 25 tons per year or 10 pounds per hour of SO₂.

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

Pursuant to 326 IAC 6-3-1(b)(14), the generator is not subject to the requirements of 326 IAC 6-3-2 because the potential to emit particulates is less than 0.551 pounds per hour.

326 IAC 6.5-1 (Particulate Matter Limitations Except Lake County)

This source will initially be located in St. Joseph County, and may relocate to any of the counties listed in 326 IAC 6.5-1 except for Clark County. This facility is not specifically listed in Article 6.5, but will have actual emissions that exceed 10 tons per year. Pursuant to 326 IAC 6.5-1-2, the diesel generator will be subject to the following requirement when operating in any of the counties listed in this rule:

Pursuant to 326 IAC 6.5-1-2(a), particulate matter (PM) emissions from the diesel generator shall be limited to 0.03 grains per dry standard cubic foot of exhaust air when located in Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne counties.

326 IAC 6.8-1 (Particulate Matter Limitations for Lake County)

Although this source will initially be located in St. Joseph County, it may relocate to Lake County. This facility is not specifically listed in Article 6.8, but will have actual emissions that exceed 10 tons per year. Pursuant to 326 IAC 6.8-1-2, the diesel generator will be subject to the following requirement if this source relocates to Lake County:

Pursuant to 326 IAC 6.8-1-2(a), particulate matter (PM) emissions from the diesel generator shall be limited to 0.03 grains per dry standard cubic foot of exhaust air when located in Lake County.

326 IAC 10-1 (Nitrogen Oxides Control in Clark and Floyd Counties)

This source shall not relocate to Clark or Floyd Counties without prior approval from IDEM, OAQ; therefore, the requirements of 326 IAC 10-1 are not applicable to the generator. If the source relocated to Clark or Floyd Counties, the generator would be subject to 326 IAC 10-1 (Nitrogen Oxides Control in Clark or Floyd Counties). Pursuant to 326 IAC 10-1-1(a)(3), the generator would have to comply with the requirements of 326 IAC 10-1 or best available control technology (BACT), whichever is more stringent. For this reason, prior approval from IDEM, OAQ is required before this source is allowed to relocate to Clark or Floyd Counties.

Conclusion

The construction and operation of this portable concrete/asphalt or other nonmetallic mineral stone recycling plant shall be subject to the conditions of the New Source Construction and Minor Source Operating Permit 141-23036-05293.

Appendix A: Emission Calculations
Concrete /Asphalt Crushing Operation
Company Name: Mishawaka Concrete/Asphalt Recycling, Inc.
Initial Location City IN Zip: 860 South Beiger Street, Mishawaka, Indiana 46544
Permit Number: 23036
Plant ID: 141-05293
Reviewer: ERG/SE
Date: 06/09/06

EMISSION CALCULATIONS*Processing plant and stock pile*

Source description	Throughput tons/hr	Uncontrolled EF			Uncontrolled PTE			Controlled EF			Controlled PTE		
		PM10 lb/ton	PM2.5 lb/ton	PM lb/ton	PM10 tons/yr	PM2.5 tons/yr	PM tons/yr	PM10 lb/ton	PM2.5 lb/ton	PM lb/ton	PM10 tons/yr	PM2.5 tons/yr	PM tons/yr
Truck unloading to pile (SCC3-05-020-31)	350	1.6E-05	1.6E-05	1.6E-05	0.02	0.02	0.02	1.6E-05	1.6E-05	1.6E-05	0.02	0.02	0.02
Load from pile to feed hopper (SCC3-05-020-32)	350	1.0E-04	1.0E-04	1.0E-04	0.15	0.15	0.15	1.0E-04	1.0E-04	1.0E-04	0.15	0.15	0.15
Lipman jaw crusher (SCC 3-05-020-03)	350	0.0024	0.0024	0.0054	3.68	3.68	8.28	5.4E-04	1.0E-04	1.2E-03	0.83	0.15	1.84
Crusher to primary discharge conveyor (SCC 3-05-020-06)	350	0.0011	0.0011	0.003	1.69	1.69	4.60	4.6E-05	1.3E-05	1.4E-04	0.07	0.02	0.21
Discharge conveyor to feed conveyor (SCC 3-05-020-06)	455	0.0011	0.0011	0.003	2.19	2.19	5.98	4.6E-05	1.3E-05	1.4E-04	0.09	0.03	0.28
Feed conveyor to screener (SCC 3-05-020-06)	455	0.0011	0.0011	0.003	2.19	2.19	5.98	4.6E-05	1.3E-05	1.4E-04	0.09	0.03	0.28
Screening (3-05-020-02.03)	455	0.0087	0.0087	0.025	17.3	17.3	49.8	7.4E-04	5.0E-05	2.2E-03	1.47	0.10	4.38
Screener to stock pile conveyor (SCC 3-05-020-06)	350	0.0011	0.0011	0.003	1.69	1.69	4.60	4.6E-05	1.3E-05	1.4E-04	0.07	0.02	0.21
Stock pile conveyor to stacker conveyor (SCC 3-05-020-06)	350	0.0011	0.0011	0.003	1.69	1.69	4.60	4.6E-05	1.3E-05	1.4E-04	0.07	0.02	0.21
Stacker conveyor to piles (SCC 3-05-020-06)	350	0.0011	0.0011	0.003	1.69	1.69	4.60	4.6E-05	1.3E-05	1.4E-04	0.07	0.02	0.21
Eagle 1400 impact crusher (SCC 3-05-020-03)	105	0.0024	0.0024	0.0054	1.10	1.10	2.48	5.4E-04	1.0E-04	1.2E-03	0.25	0.05	0.55
Crusher to secondary discharge conveyor (SCC 3-05-020-06)	105	0.0011	0.0011	0.003	0.51	0.51	1.38	4.6E-05	1.3E-05	1.4E-04	0.02	0.01	0.06
Discharge conveyor to return conveyor (SCC 3-05-020-06)	105	0.0011	0.0011	0.003	0.51	0.51	1.38	4.6E-05	1.3E-05	1.4E-04	0.02	0.01	0.06
Return conveyor to primary discharge conveyor (SCC 3-05-020-06)	105	0.0011	0.0011	0.003	0.51	0.51	1.38	4.6E-05	1.3E-05	1.4E-04	0.02	0.01	0.06
Stock pile	350	0.007	0.002	0.015	10.7	3.07	23.0	0.007	0.002	0.015	10.7	3.07	23.0
Total emissions - processing plant and stock pile					45.7	38.0	118.2				14.0	3.69	31.6

Uncontrolled :

Controlled :

TOTAL PLANT EMISSIONS45.7 tpy PM₁₀14.0 tpy PM₁₀38.0 tpy PM_{2.5}3.69 tpy PM_{2.5}

118.2 tpy PM

31.6 tpy PM

Methodology :

EPA AP-42, Section 11.19.2 Crushed Stone Processing and Pulverized Mineral Processing (8/04), Table 11.19.2-2 provides uncontrolled and controlled particulate matter emission factors (reported as TSP, PM₁₀ and PM_{2.5}) for various crushed stone processing operations. The factor for PM10 was used for PM2.5 and PM where a size specific factor was not given.

PTE (uncontrolled) = Throughput (tons/hour) * Uncontrolled EF (lbs/ton) * 8760 hrs/yr * 1/2000 lbs/ton

PTE (controlled) = Throughput (tons/hour) * Controlled EF (lbs/ton) * 8760 hrs/yr * 1/2000 lbs/ton

EPA AP-42, Section 13.2.4 Aggregate Handling and Storage Piles (1/95), Equation 1 was used to develop emission factors for the stock pile. The equation is:

$$EF \text{ (lb/ton)} = k \times 0.0032 \times (U/5)^{1.3} / (M/2)^{1.4}$$

where U is the mean wind speed and M is the material moisture content (values of 15 mph and 1.5 pct were used to calculate EF). Values for k given in AP-42 are: TSP - 0.74, PM10 - 0.35, and PM2.5 - 0.11.

Appendix A: Emission Calculations

Deisel Generator

Company Name: Mishawaka Concrete/Asphalt Recycling, Inc.
Initial Location City IN Zip: 860 South Beiger Street, Mishawaka, Indiana 46544
Permit Number: 23036
Plant ID: 141-05293
Reviewer: ERG/SE
Date: 06/09/06

Description: 650 kW diesel generator used to produce electricity to run plant

OPERATION/PRODUCTION RELATED INFORMATION

<i>Parameter</i>	<i>value</i>	<i>units</i>	<i>Reference</i>
Maximum engine output rate	650	kW	Equipment design specification
Maximum fuel flow	40	gal/hr	Equipment design specification
Diesel oil heat content	138,000	Btu/gal	Typical industry specification
Maximum heat input	5.52	MMBtu/hr	Calculated value

EMISSION RELATED DATA

PM₁₀	0.0573	units	lb/MMBtu
PM_{2.5}	0.0479	units	lb/MMBtu
PM	0.0697	units	lb/MMBtu
SO₂	0.51	units	lb/MMBtu (based on 0.5 wt. pct. sulfur)
NO_x	3.2	units	lbs/MMBtu
CO	0.85	units	lb/MMBtu
NMHC (VOC)	0.09	units	lb/MMBtu
Total HAPs	1.58E-03	units	lb/MMBtu

Reference EPA AP-42, Section 3.4 (10/96), Tables 3.4-1 and 3.4-2 and HAPs - Tables 3.4-3 and 3.4-4.

POTENTIAL EMISSION CALCULATIONS (STATUTORY DEFINITION - 8,760 hours/year)

<i>Pollutant</i>	Potential emissions diesel combustion	
	lbs/hr	tpy
PM₁₀	0.32	1.39
PM_{2.5}	0.26	1.16
PM	0.38	1.69
SO₂	2.82	12.33
NO_x	17.66	77.37
CO	4.69	20.55
NMHC (VOC)	0.50	2.18
Total HAPs	0.009	0.038