



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

TO: Interested Parties / Applicant

DATE: December 13, 2012

RE: Howard Concrete Pumping Company, Inc. / 021-32578-05364

FROM: Matthew Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

## Notice of Decision – Approval

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 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires 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, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from 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-AM.dot12/3/07



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Mr. Arik Way  
Howard Concrete Pumping Company Inc.  
701 Millers Run Road  
Cuddy, PA 15031

December 13, 2012

Re: 021-32578-05364  
Portable Source Relocation Letter for  
SSOA No. 173-30493-05364

Dear Mr. Way:

Approval is hereby granted to operate the portable ready-mix concrete batch operation described in SSOA No. 173-30493-05364 issued on May 13, 2011. This source is to be located at 6229 W County Road 1300 S, Jasonville, IN 47438, in Clay County. This plant was previously located at 915 N 4th Street, Boonville, IN, 47601, in Warrick County.

Relocation of this plant must take place within 120 days after the issuance of this decision. This approval supersedes all previous site approval letters.

Advance written notice to the Office of Air Quality (OAQ), Compliance and Enforcement Branch, of start-up is required in order for the OAQ to perform an inspection. The notification shall be submitted to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251.

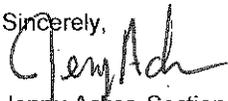
If the plant is not operating in compliance with all applicable regulations upon inspection, the plant must cease operation upon notification to you by OAQ staff of such non-compliance. Operations may only resume once remedial actions have been taken and approved by the OAQ.

Pursuant to 326 IAC 2-7-1(39), starting July 1, 2011, greenhouse gases (GHGs) emissions are subject to regulation at a source with a potential to emit (PTE) 100,000 tons per year or more of CO<sub>2</sub> equivalent emissions (CO<sub>2</sub>e). Therefore, CO<sub>2</sub>e emissions have been calculated for this source. Based on the calculations, the unlimited PTE GHGs from the entire source is less than 100,000 tons of CO<sub>2</sub>e per year (see Appendix A for detailed calculations). This did not require any changes to the permit.

A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: [www.idem.in.gov](http://www.idem.in.gov)

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions concerning this relocation site approval, please contact Julie Alexander, of my staff, at 317-233-1782 or 1-800-451-6027, and ask for extension 3-1782.

Sincerely,

  
Jenny Acker, Section Chief  
Permits Branch  
Office of Air Quality

JA/jla

Enclosures: Notice of Decision

cc: File Clay County  
Clay County Health Department  
Compliance and Enforcement Branch  
Billing, Licensing and Training Section



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## SOURCE SPECIFIC OPERATING AGREEMENT OFFICE OF AIR QUALITY

### Howard Concrete Pumping Co., Inc.

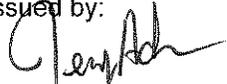
**(Portable)**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this SSOA.

This SSOA is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-9 and 40 CFR 52.780, with conditions listed on the attached pages.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this SSOA, are those applicable at the time the SSOA was issued. The issuance or possession of this SSOA shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Source Specific Operating Agreement (SSOA) under 326 IAC 2-9.

Source Specific Operating Agreement No. 173-30493-05364	
Issued by: (original signed by) Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: May 13, 2011

Portable Source Relocation No. 021-32578-05364	
Issued by:  Jenny Acker, Section Chief Permits Branch Office of Air Quality	Issuance Date: December 13, 2012

## SECTION A

## SOURCE SUMMARY

This SSOA 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 pursuant to 326 IAC 2.

### A.1 General Information

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The Permittee owns and operates a portable Ready-Mix Concrete Batch Operation.

Source Address:	6229 W County Road 1300 S, Jasonville, IN 47438
Initial Source Address:	915 N 4th St, Boonville, Indiana 47601
General Source Phone Number:	(412) 257-1800
SIC Code:	3272
County Location:	Warrick County
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Source Specific Operating Agreement (SSOA) Not 1 of 28 Source Categories

### A.2 Source Summary

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This portable source consists of the following:

Ready-Mix Concrete Batch Operation [326 IAC 2-9-9]

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

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- (a) This source, otherwise required to have a permit under 326 IAC 2-5.1, 326 IAC 2-5.5, 326 IAC 2-6.1, 326 IAC 2-7, or 326 IAC 2-8, has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Source Specific Operating Agreement (SSOA) under 326 IAC 2-9.
- (b) Pursuant to 326 IAC 2-9-1(g), the source may apply for up to four (4) different SSOAs contained in 326 IAC 2-9.

## SECTION B

## GENERAL CONDITIONS

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

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Terms in this SSOA 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 Enforceability

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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.3 Severability

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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.4 Property Rights or Exclusive Privilege

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

### B.5 Duty to Provide Information

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- (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. 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.6 Prior Permits Superseded [326 IAC 2-1.1-9.5]

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- (a) All terms and conditions of permits established prior to SSOA No. 173-30493-05364 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.7 Annual Notification [326 IAC 2-9-1(d)]

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Pursuant to 326 IAC 2-9-1(d):

- (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 SSOA.
- (b) The annual notice shall be submitted in the format attached no later than January 30 of each year to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, IN 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.8 Source Modification Requirement [326 IAC 2-9-1(e)]**

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Pursuant to 326 IAC 2-9-1(e), before the Permittee modifies its operations in such a way that it will no longer comply with the applicable restrictions and conditions of this SSOA, it shall obtain the appropriate approval from IDEM, OAQ under 326 IAC 2-2, 326 IAC 2-3, 326 IAC 2-4.1, 326 IAC 2-5.1, 326 IAC 2-6.1, 326 IAC 2-7, and 326 IAC 2-8.

**B.9 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [IC 13-14-2-2] [IC 13-17-3-2] [IC 13-30-3-1]**

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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.10 Permit Revocation [326 IAC 2-1.1-9] [326 IAC 2-9-1(j)]**

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

- (1) Violation of any conditions of this permit.
- (2) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.

- (3) 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.
  - (4) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
  - (5) 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.
- (b) Pursuant to 326 IAC 2-9-1(j), noncompliance with any applicable provision 326 IAC 2-9 or any requirement contained in this SSOA may result in the revocation of this SSOA and make this source subject to the applicable requirements of a major source.

## SECTION C

## SOURCE OPERATION CONDITIONS

Entire Source

### Compliance Requirements [326 IAC 2-1.1-11] [326 IAC 2-9]

#### C.1 Compliance with Applicable Requirements [326 IAC 2-9-1(i)]

Pursuant to 326 IAC 2-9-1(i), the owner or operator is hereby notified that this operating agreement does not relieve the Permittee of the responsibility to comply with the provisions of any applicable federal, state, or local rules, or any New Source Performance Standards (NSPS), 40 CFR Part 60, or National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR Part 61 or 40 CFR Part 63.

### Record Keeping and Reporting Requirements [326 IAC 2-9]

#### C.2 General Record Keeping Requirements [326 IAC 2-9-1(f)]

Pursuant to 326 IAC 2-9-1(f), records of all required monitoring data, reports and support information required by this SSOA shall be physically present or electronically accessible at the source location for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

#### C.3 Reporting Requirements [326 IAC 2-9-1(h)]

Pursuant to 326 IAC 2-9-1(h), any exceedance of any requirement contained in this operating agreement shall be reported, in writing, within one (1) week of its occurrence. Said report shall include information on the actions taken to correct the exceedance, including measures to reduce emissions, in order to comply with the established limits. If an exceedance is the result of a malfunction, then the provisions of 326 IAC 1-6 apply.

### Portable Source Requirements

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

- (a) This permit is approved for operation in all areas of Indiana, except Lake County and/or Porter County, because of the additional requirements for these specific counties. This determination is based on the requirements of Prevention of Significant Deterioration in 326 IAC 2-2 and Emission Offset in 326 IAC 2-3.
- (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 13-15-8]
  - (3) The new location address of the portable source.
  - (4) Whether or not this portable source will be relocated to another source.
  - (5) If relocating to another source:

- (A) Name, location address, and permit number of the source this portable source is relocating to.
  - (B) Whether or not the sources will be considered as one source. See Non Rule Policy (NRP) Air-005 and Air-006.
- (6) If the sources will be considered as one source, whether or not the source to be relocated to has received the necessary approvals from IDEM to allow the relocation.
- (c) A "Relocation Site Approval" letter shall be obtained prior to relocating.
  - (d) A valid operation agreement consists of this document and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.

## SECTION D

## OPERATION CONDITIONS

### Operation Description:

Ready-Mix Concrete Batch Operation [326 IAC 2-9-9]

(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 2-9]

#### D.1 Ready-Mix Concrete Batch Operation Limitation [326 IAC 2-9-9(b)(1)]

Pursuant to 326 IAC 2-9-9(b)(1), the production from the concrete batch operation shall be limited to less than three hundred thousand (300,000) cubic yards per year.

#### D.2 Opacity [326 IAC 2-9-9(b)(3)]

Pursuant to 326 IAC 2-9-9(b)(3), fugitive particulate emissions from the cement and aggregate silos shall be controlled by operating dust collectors such that visible emissions do not exceed twenty percent (20%) opacity in twenty-four (24) consecutive readings in a six (6) minute period. Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.

#### D.3 Fugitive Emissions [326 IAC 2-9-9(b)(4)] [326 IAC 2-9-9(b)(8)]

(a) Pursuant to 326 IAC 2-9-9(b)(4), the fugitive particulate matter (PM) emissions from all aggregate storage piles, unpaved roadways, and aggregate transfer processes of this source shall be controlled by applying water on an as needed basis, such that the following visible emission conditions are met:

- (1) The visible emissions from any storage pile shall not exceed twenty percent (20%) in twenty-four (24) consecutive readings in a six (6) minute period. This limitation shall not apply during periods when application of control measures are ineffective or unreasonable due to sustained high wind speeds. The opacity shall be determined using 40 CFR 60, Appendix A, Method 9, except that the opacity shall be observed at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand at least fifteen (15) feet, but no more than one-fourth (1/4) mile, from the plume and at approximately right angles to the plume.
- (2) The visible emissions from unpaved roadways shall not exceed an average instantaneous opacity of twenty percent (20%). Average instantaneous opacity shall be the average of twelve (12) instantaneous opacity readings, taken for four (4) vehicle passes, consisting of three (3) opacity readings for each vehicle pass. The three (3) opacity readings for each vehicle pass shall be taken as follows:
  - (A) The first reading shall be taken at the time of emission generation.
  - (B) The second reading shall be taken five (5) seconds after the first.
  - (C) The third reading shall be taken five (5) seconds after the second reading, or ten (10) seconds after the first reading.

The three (3) readings shall be taken approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand at least fifteen (15)

feet, but no more than one-fourth (1/4) mile, from the plume and at approximately right angles to the plume.

- (3) Visible emissions from the aggregate transferring processes shall not exceed an average instantaneous opacity of twenty percent (20%). The average instantaneous opacity shall be the average of three (3) opacity readings taken five (5) seconds, ten (10) seconds, and fifteen (15) seconds after the end of one (1) material loading or unloading operation. The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand at least fifteen (15) feet, but no more than one-fourth (1/4) mile, from the plume and at approximately right angles to the plume.
- (b) Pursuant to 326 IAC 2-9-9(b)(8), the fugitive particulate emissions at the ready-mix concrete batch plant shall not escape beyond the property lines or boundaries of the source property, right of way, or easement on which the source is located pursuant to 326 IAC 6-4.

#### **Compliance Determination Requirements [326 IAC 2-9]**

##### **D.4 Particulate [326 IAC 2-9-9(b)(5)] [326 IAC 2-9-9(b)(6)]**

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Pursuant to 326 IAC 2-9-9(b)(5) and 326 IAC 2-9-9(b)(6), the owner or operator shall comply with the following:

- (a) All equipment that generate particulate matter (PM) emissions and any associated control devices shall be operated and maintained at all times of plant operation, in such a manner, as to meet all of the requirements of Conditions D.2 and D.3.
- (b) All cement transferring processes shall always be enclosed.

#### **Record Keeping and Reporting Requirements [326 IAC 2-9]**

##### **D.5 Record Keeping Requirements [326 IAC 2-9-9(b)(2)] [326 IAC 2-9-9(b)(7)]**

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Pursuant to 326 IAC 2-9-9(b)(2) and 326 IAC 2-9-9(b)(7):

- (a) The source shall keep annual production records of the concrete batch operation at the site on a calendar year basis.
- (b) The source shall maintain records on the types of air pollution control devices used at the source and the operation and maintenance manuals for those control devices.
- (c) Section C - General Record Keeping Requirements of this SSOA contains the Permittee's obligations with regard to the records required by this condition.

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

**SOURCE SPECIFIC OPERATING AGREEMENT (SSOA)  
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-9.

<b>Company Name:</b>	Howard Concrete Pumping Co., Inc.
<b>Address:</b>	(Portable)
<b>Phone #:</b>	(412) 257-1800
<b>SSOA #:</b>	S 173-30493-05364

I hereby certify that Howard Concrete Pumping Co., Inc. is:

still in operation.

no longer in operation.

I hereby certify that Howard Concrete Pumping Co., Inc. is:

in compliance with the requirements of SSOA 173-30493-05364.

not in compliance with the requirements of SSOA 173-30493-05364.

<b>Authorized Individual (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Date:</b>

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.

<b>Noncompliance:</b>

**Appendix A: Emission Calculations  
Potential Emissions from Mixer Engine**

Company Name: Howard Concrete Pumping Co., Inc  
Permit Number: 021-32578-05364  
Reviewer: Julie Alexander  
Date: December 06, 2012

**Assumptions**

Potential Operating Hours:	1,080	(Plant will be operating for a maximum of 15 weeks at 12 hr/day at 6 days/wk)
Engine horsepower (hp)	153	
Average BSFC assumed (Btu/hp-hr)	7000	

**Potential Emissions From Mixer Engine (uncontrolled with limited hours of operation)**

CAS #	Compound	Federally Listed HAP	VOC/PAH	Emission Factors <sup>1</sup>		Short-term Emission (lb/hr)	Annual Emission (ton/project)
				(lb/MMBtu)	(lb/hp-hr)		
	NO <sub>x</sub>	No	NA		3.10E-02	4.74	2.561
630-08-0	CO	No	NA		6.68E-03	1.02	0.552
	SO <sub>x</sub>	No	NA		2.05E-03	0.31	0.169
	Total PE (equals PM10)	No	NA		2.20E-03	0.34	0.182
	TOC (assume = VOC)	No	VOC		2.51E-03	0.38	0.208
	CO <sub>2</sub>	No	NA		1.15E+00	175.95	95.013
	CH <sub>4</sub>	No	NA	0.003	4.63E-05	0.01	0.004
	N <sub>2</sub> O	No	NA	0.0006	9.26E-06	1.42E-03	0.001
					Total GHGs	177	95
71-43-2	Benzene	Yes	VOC	9.33E-04	6.53E-06	9.99E-04	5.40E-04
108-88-3	Toluene	Yes	VOC	4.09E-04	2.86E-06	4.38E-04	2.37E-04
1330-20-7	Xylenes	Yes	VOC	2.85E-04	2.00E-06	3.05E-04	1.65E-04
				3.91E-05	2.74E-07	4.19E-05	2.26E-05
50-00-0	Formaldehyde	Yes	VOC	1.18E-03	8.26E-06	1.26E-03	6.82E-04
75-07-0	Acetaldehyde	Yes	VOC	7.67E-04	5.37E-06	8.21E-04	4.44E-04
107-02-8	Acrolein	Yes	VOC	9.25E-05	6.48E-07	9.91E-05	5.35E-05
	<b>Total VHAP</b>			<b>3.71E-03</b>	<b>2.59E-05</b>	<b>3.97E-03</b>	<b>2.14E-03</b>
91-20-3	Naphthalene	Yes	PAH	8.48E-05	5.94E-07	9.08E-05	4.90E-05
208-96-8	Acenaphthylene	Yes	PAH	5.06E-06	3.54E-08	5.42E-06	2.93E-06
83-32-9	Acenaphthene	Yes	PAH	1.42E-06	9.94E-09	1.52E-06	8.21E-07
86-73-7	Fluorene	Yes	PAH	2.92E-05	2.04E-07	3.13E-05	1.69E-05
85-01-8	Phenanthrene	Yes	PAH	2.94E-05	2.06E-07	3.15E-05	1.70E-05
120-12-7	Anthracene	Yes	PAH	1.87E-06	1.31E-08	2.00E-06	1.08E-06
206-44-0	Fluoranthene	Yes	PAH	7.61E-06	5.33E-08	8.15E-06	4.40E-06
129-00-0	Pyrene	Yes	PAH	4.78E-06	3.35E-08	5.12E-06	2.76E-06
56-55-3	Benzo(a)anthracene	Yes	PAH	1.68E-06	1.18E-08	1.80E-06	9.72E-07
218-01-9	Chrysene	Yes	PAH	3.53E-07	2.47E-09	3.78E-07	2.04E-07
205-99-2	Benzo(b)fluoranthene	Yes	PAH	9.91E-08	6.94E-10	1.06E-07	5.73E-08
207-08-9	Benzo(k)fluoranthene	Yes	PAH	1.55E-07	1.09E-09	1.66E-07	8.96E-08
50-32-8	Benzo(a)pyrene	Yes	PAH	1.88E-07	1.32E-09	2.01E-07	1.09E-07
193-39-5	Indeno(1,2,3-cd)pyrene	Yes	PAH	3.75E-07	2.63E-09	4.02E-07	2.17E-07
53-70-3	Dibenz(a,h)anthracene	Yes	PAH	5.83E-07	4.08E-09	6.24E-07	3.37E-07
191-24-2	Benzo(g,h,i)perylene	Yes	PAH	4.89E-07	3.42E-09	5.24E-07	2.83E-07
	<b>Total PAH:</b>			<b>1.68E-04</b>	<b>1.18E-06</b>	<b>1.80E-04</b>	<b>9.72E-05</b>
	<b>Total HAP:</b>			<b>3.87E-03</b>	<b>2.71E-05</b>	<b>4.15E-03</b>	<b>2.24E-03</b>

Emission Factors obtained from AP-42 Section 3.3 Tables 3.3-1 and 3.3-2, October 1996.

CH<sub>4</sub> and N<sub>2</sub>O Emission Factor from 40 CFR 98 Subpart C Table C-2.

Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

**Appendix A: Emission Calculations  
Potential Emissions from Grout Pump Engine**

**Company Name: Howard Concrete Pumping Co., Inc  
Permit Number: 021-32578-05364  
Reviewer: Julie Alexander  
Date: December 06, 2012**

**Assumptions**

Actual Operating Hours:	1,080	(Plant will be operating for a maximum of 15 weeks at 12 hr/day at 6 days/wk)
Engine horsepower (hp)	285	
Average BSFC assumed (Btu/hp-hr)	7000	

**Potential Emissions from Grout Pump Engine (uncontrolled with limited hours of operation)**

CAS #	Compound	Federally Listed HAP	VOC/PAH	Emission Factors <sup>1</sup>		Short-term Emission	Annual Emission
				(lb/MMBtu)	(lb/hp-hr)	(lb/hr)	(ton/project)
	NO <sub>x</sub>	No	NA		3.10E-02	8.84	4.771
630-08-0	CO	No	NA		6.68E-03	1.90	1.028
	SO <sub>x</sub>	No	NA		2.05E-03	0.58	0.315
	Total PE (equals PM10)	No	NA		2.20E-03	0.63	0.339
	TOC (assume = VOC)	No	VOC		2.51E-03	0.72	0.387
	CO <sub>2</sub>	No	NA		1.15E+00	327.75	176.985
	CH <sub>4</sub>	No	NA	0.003	4.63E-05	0.01	0.007
	N <sub>2</sub> O	No	NA	0.0006	9.26E-06	2.64E-03	0.001
					Total GHGs	329	178
71-43-2	Benzene	Yes	VOC	9.33E-04	6.53E-06	1.86E-03	1.01E-03
108-88-3	Toluene	Yes	VOC	4.09E-04	2.86E-06	8.16E-04	4.41E-04
1330-20-7	Xylenes	Yes	VOC	2.85E-04	2.00E-06	5.69E-04	3.07E-04
106-99-0	1,3-Butadiene	Yes	VOC	3.91E-05	2.74E-07	7.80E-05	4.21E-05
50-00-0	Formaldehyde	Yes	VOC	1.18E-03	8.26E-06	2.35E-03	1.27E-03
75-07-0	Acetaldehyde	Yes	VOC	7.67E-04	5.37E-06	1.53E-03	8.26E-04
107-02-8	Acrolein	Yes	VOC	9.25E-05	6.48E-07	1.85E-04	9.97E-05
	<b>Total VHAP</b>			<b>3.71E-03</b>	<b>2.59E-05</b>	<b>7.39E-03</b>	<b>3.99E-03</b>
91-20-3	Naphthalene	Yes	PAH	8.48E-05	5.94E-07	1.69E-04	9.14E-05
208-96-8	Acenaphthylene	Yes	PAH	5.06E-06	3.54E-08	1.01E-05	5.45E-06
83-32-9	Acenaphthene	Yes	PAH	1.42E-06	9.94E-09	2.83E-06	1.53E-06
86-73-7	Fluorene	Yes	PAH	2.92E-05	2.04E-07	5.83E-05	3.15E-05
85-01-8	Phenanthrene	Yes	PAH	2.94E-05	2.06E-07	5.87E-05	3.17E-05
120-12-7	Anthracene	Yes	PAH	1.87E-06	1.31E-08	3.73E-06	2.01E-06
206-44-0	Fluoranthene	Yes	PAH	7.61E-06	5.33E-08	1.52E-05	8.20E-06
129-00-0	Pyrene	Yes	PAH	4.78E-06	3.35E-08	9.54E-06	5.15E-06
56-55-3	Benzo(a)anthracene	Yes	PAH	1.68E-06	1.18E-08	3.35E-06	1.81E-06
218-01-9	Chrysene	Yes	PAH	3.53E-07	2.47E-09	7.04E-07	3.80E-07
205-99-2	Benzo(b)fluoranthene	Yes	PAH	9.91E-08	6.94E-10	1.98E-07	1.07E-07
207-08-9	Benzo(k)fluoranthene	Yes	PAH	1.55E-07	1.09E-09	3.09E-07	1.67E-07
50-32-8	Benzo(a)pyrene	Yes	PAH	1.88E-07	1.32E-09	3.75E-07	2.03E-07
193-39-5	Indeno(1,2,3-cd)pyrene	Yes	PAH	3.75E-07	2.63E-09	7.48E-07	4.04E-07
53-70-3	Dibenz(a,h)anthracene	Yes	PAH	5.83E-07	4.08E-09	1.16E-06	6.28E-07
191-24-2	Benzo(g,h,i)perylene	Yes	PAH	4.89E-07	3.42E-09	9.76E-07	5.27E-07
	<b>Total PAH:</b>			<b>1.68E-04</b>	<b>1.18E-06</b>	<b>3.35E-04</b>	<b>1.81E-04</b>
	<b>Total HAP:</b>			<b>3.87E-03</b>	<b>2.71E-05</b>	<b>7.73E-03</b>	<b>4.17E-03</b>

Emission Factors obtained from AP-42 Section 3.3 Tables 3.3-1 and 3.3-2, October 1996.

CH<sub>4</sub> and N<sub>2</sub>O Emission Factor from 40 CFR 98 Subpart C Table C-2.

Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
**Governor**

*Thomas W. Easterly*  
**Commissioner**

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## **SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED**

**TO:** Arik Way  
Howard Concrete Pumping Company, Inc.  
701 millers Run Road  
Cuddy, PA 15031

**DATE:** December 13, 2012

**FROM:** Matt Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

**SUBJECT:** Final Decision  
Relocation  
021-32578-05364

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:  
Kris Macoskey – Civil & Environmental Consultants, Inc.  
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at [jbrush@idem.IN.gov](mailto:jbrush@idem.IN.gov).

Final Applicant Cover letter.dot 11/30/07

# Mail Code 61-53

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2		MD Clay County Health Department 1214 E National Ave #B110 Brazil IN 47834-2718 (Health Department)										
3		Clay County Board of Commissioners 609 E. National St. Brazil IN 47834 (Local Official)										
4		Kris Macoskey Civil & Environmental Consultants, Inc. 333 Baldwin Road Pittsburgh PA 15205 (Consultant)										
5		Beverly Gray 6229 W CR 1300 S Jasonville IN 47438 (Affected Party)										
6		Loren Bruce & Sharon Fisk Holdaway 6104 W CR 1300 S Jasonville IN 47438 (Affected Party)										
7		Mr. Daniel R Hayden 6273 W CR 1300 S Jasonville IN 47438 (Affected Party)										
8		Mr. Melvin Sittig 13023 S CR 700 W Shelburn IN 47879 (Affected Party)										
9		Helen C Baughman & Bruse A Stevens 12791 S SR 159 Jasonville IN 47438 (Affected Party)										
10		Ms. Rhonda Bengé 3087 S CR 1300 S Jasonville IN 47438 (Affected Party)										
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