STATE OF MISSOURI

DEPARTMENT OF
NATURAL RESOURCES

MISSOURI AIR CONSERVATION COMMISSION

PERMIT TO CONSTRUCT

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to construct the air contaminant source(s) described below, in accordance with the laws, rules and conditions as set forth herein.

Permit Number: 052009-003 Project Number: 2008-11-032

Parent Company: Hughes Brothers Construction, LLC

Parent Company Address: 2025 Hampton Road, Hartville, MO 65667

Installation Name: Hughes Brothers Construction, LLC

Installation Address: 5054 State Route HH, Hartville, MO 65667

Location Information: Wright County (S3, T29N, R14W)

Application for Authority to Construct was made for:

The modification of an existing rock screening plant to add a crusher with a vibrating grizzly feeder, two conveyors and a 325 horsepower diesel engine.

The review was conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, Construction Permit Required.

☐ Standard Conditions (on reverse) are applicable to this permit.

☐ Standard Conditions (on reverse) and Special Conditions are applicable to this permit.

MAY - 5 2009

DIRECTOR OR DESIGNEE
DEPARTMENT OF NATURAL RESOURCES
STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Air Pollution Control Program if construction or modification is not started within two years/18 months after the effective date of this permit, or if construction or modification is suspended for one year or more.

You will be in violation of 10 CSR 10-6.060 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review. In the event that there is a discrepancy between the permit application and this permit, the conditions of this permit shall take precedence. Specifically, all air contaminant control devises shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the departments’ Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant source(s). The information must be made available not more than 60 days but at least 30 days in advance of this date. Also, you must notify the Department of Natural Resources Regional office responsible for the area within which you are located within 15 days after the actual start up of this (these) air contaminant source(s).

A copy of this permit and permit review shall be kept at the installation address and shall be made available to Department of Natural Resources’ personnel upon request.

You may appeal this permit or any of the listed special conditions to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.075.6 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

If you choose not to appeal, this certificate, the project review and your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant sources(s), but in no way relieves you of your obligation to comply with all applicable provisions of the Missouri Air Conservation Law, regulations of the Missouri Department of Natural Resources and other applicable federal, state and local laws and ordinances.

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit at (573) 751-4817. If you prefer to write, please address your correspondence to the Missouri Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, attention: Construction Permit Unit.
GENERAL SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075); by the Missouri Rules listed in Title 10, Division 10 of the Codes of State Regulations (specifically 10 CSR 10-6.060); by 10 CSR 10-6.060 paragraph (12)(A)10. “Conditions required by permitting authority”; by 10 CSR 10-6.010 “Ambient Air Quality Standards” and 10 CSR 10-6.060 subsections (5)(D) and (6)(A); and by control measures requested by the applicant, in their permit application, to reduce the amount of air pollutants being emitted, in accordance with 10 CSR 10-6.060 paragraph (6)(E)3. Furthermore, one or more of the Subparts of 40 CFR Part 60, New Source Performance Standards (NSPS), applies to this installation.

1. Portable Equipment Identification Requirement
To assure that each component is properly identified as being a part of this portable rock-crushing plant, PORT-0601, Hughes Brother Construction, LLC shall provide and maintain suitable, easily read permanent markings on each component of the plant. These markings shall be the equipment’s serial number or a company assigned identification number that uniquely identifies the individual component. These identification numbers must be submitted to the Air Pollution Control Program no later than 15 days after start-up of the portable rock crushing plant.

2. Relocation of Portable Rock Crushing Plant
A. The portable rock crushing plant shall not be operated at any site location longer than 24 consecutive months without an intervening relocation.
B. A complete “Portable Source Relocation Request” application must be submitted to the Air Pollution Control Program prior to any relocation of this portable rock crushing plant.
   1.) If the portable rock crushing plant is moving to a site previously permitted, and if there are no other new plants at the site, then the application must be received by the Air Pollution Control Program at least seven (7) days prior to the relocation.
   2.) If the portable rock crushing plant is moving to a new site, or if there are other plants or equipment at the site that have not been evaluated for concurrent operation, then the application must be received by the Air Pollution Control Program at least twenty-one (21) days prior to the relocation. The application must include written notification of any concurrently operating plants.

3. Record Keeping Requirement
The operator(s) shall maintain all records required by this permit for not less than five (5) years and shall make them available to any Missouri Department of Natural Resources’ personnel upon request.

4. Superseding Condition
The conditions of this permit supersede all special conditions found in the previously issued construction permit(s) (082007-016) from the Air Pollution Control Program.
SITE-SPECIFIC SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

Site ID No.: 229-0038  
Site Name: Black Oak Recycling and Disposal Facility  
Site Address: 2025 Hampton road, Hartville MO 65667  
Site County: Wright County, S3, T29N, R14W

1. National Ambient Air Quality Standards (NAAQS) Limitation for Particulate Matter Less Than Ten Microns in Diameter (PM$_{10}$)
   A. The operator(s) for Hughes Brother Construction, LLC’s portable rock crushing plant, PORT-0601, shall ensure, while operating at this site, that the ambient impact of PM$_{10}$ at or beyond the nearest property boundary does not exceed 150 µg/m$^3$ in any 24-hour period, in accordance with the Federal NAAQS requirements (40 CFR 50.6).
   B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed. Attachment A, Daily Ambient PM$_{10}$ Impact Tracking Record, or other equivalent form(s), shall be used for this purpose.

2. Usage of Undocumented Watering on Haul Road(s) and Vehicular Activity Area(s)
The operator(s) shall control the emission of particulate matter from all haul roads and vehicular activity areas of the storage piles. The operator(s) shall apply a water spray on these sources whenever conditions exists that would allow visible fugitive emissions to enter the ambient air beyond the property boundaries. Undocumented watering is to be used on all haul roads and vehicular activity areas used by the installation.

Hughes Brothers Construction, LLC shall comply with all appropriate monitoring, testing, reporting and record keeping requirements of 40 CFR Part 60, Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plant.

4. Prohibition Against Concurrent Operations Without Further Air Pollution Control Program Review
The portable rock crushing/screening installation (PORT-0601) is prohibited from operating whenever any other plant(s) are located at this site, except for the Black Oak Recycling and Disposal Facility.

5. Restriction on Minimum Distance to Nearest Property Boundary
The primary crusher (EP11) and the primary screen (EP3) shall be located at least 300 feet from the nearest property boundary whenever it is operating at this site.

6. Record Keeping Requirement
The operator(s) shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources’ personnel upon request.

7. Reporting Requirement
The operator(s) shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedances of the limitations imposed by this permit.

8. Superseding Condition
The conditions of this permit supersede all special conditions found in the previously issued construction permit(s) (082007-016) from the Air Pollution Control Program.
TECHNICAL REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT

PROJECT DESCRIPTION

Hughes Brothers Construction, LLC proposes to add a crusher with a vibrating grizzly feeder, two (2) conveyors and a 325 horsepower diesel engine to its existing portable rock screening plant (PORT-0601). The rock crusher has a maximum hourly design rate (MHRD) of 100 tons per hour (tph). The existing screening plant has an MHRD of 125 tph. The plant will be located on a property owned by Black Oak Recycling and Disposal Facility, which operates a landfill at the site. Currently, a portable plant owned by Courtney Excavating and Construction, PORT-0471, is also permitted to operate at this site. PORT-0471 was allowed to move to this site on December 19, 2008 while Hughes Brothers Construction removed its plant for repairs. PORT-0471 must be removed from the site before PORT-0601 can be moved back to the site. PORT-0471 and PORT-0601 cannot be located on this site at the same time.

The rock crusher will crush shot rock from storage piles created from the development of landfill cells. The crusher will be positioned as close as possible to the shot rock pile so there will be no raw material haul roads. A loader will load the shot rock directly to the feeder to be processed. The existing screening equipment will be used as needed at the site.

The previous permit for PORT-0601 (#082007-016) was issued on August 16, 2007. Since a portable plant can only stay at a site for a maximum of twenty-four (24) consecutive months, the portable plant is required to move by August 16, 2009. The construction of the crusher and associated equipment does not change this requirement.

The emission points are listed in the attached spreadsheet summary. This installation is not on the List of Named Installations [10 CSR 10-6.020(3)(B), Table 2]. The installation is located in Wright County, an attainment area for all criteria air pollutants.

Table 1. Other Permits Issued for Site 229-0038

<table>
<thead>
<tr>
<th>Permit Number</th>
<th>Completed</th>
<th>Description</th>
</tr>
</thead>
</table>

EMISSIONS EVALUATION

Criteria air pollutants will be emitted from this operation. The main air pollutant of concern is PM\textsubscript{10}. The potential emissions were calculated from the maximum hourly design rate (MHRD) of the equipment, appropriate emission factors, control device efficiencies, and the limiting operating hours at MHRD. The sources of the emission factors and control efficiencies are listed in the section "Permit Documents". Based on the conditioned potential emissions, the operation is considered a \textit{de minimis} source under 10 CSR 10-6.060 section (5).

Table 2: Emissions Summary (tons per year)

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<thead>
<tr>
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</tr>
</thead>
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<tr>
<td>PM\textsubscript{10}</td>
<td>15.0</td>
<td>7.56</td>
<td>0.37</td>
<td>24.01</td>
<td>7.11</td>
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<td>0.014</td>
<td>3.00</td>
<td>0.87</td>
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<tr>
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<td>0.0220</td>
<td>45.62</td>
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</tr>
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<td>0.11</td>
<td>0.0018</td>
<td>3.72</td>
<td>1.08</td>
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</tr>
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<td>CO</td>
<td>100.0</td>
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<td>0.0047</td>
<td>9.83</td>
<td>2.85</td>
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</tr>
<tr>
<td>HAPs</td>
<td>10.0/25.0</td>
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<td>N/D</td>
<td>0.04</td>
<td>0.01</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Note: N/A = Not Applicable; N/D = Not Determined
* Existing potential emissions taken from permit #082007-016 and based on conditioned potential emissions.
** PM\textsubscript{10} conditioned potential based on daily production limit from ambient impact analysis. Other pollutants proportionately reduced.

The potential emissions and the conditioned potential emissions of the application are emissions from the crusher, the conveyors, the grizzly feeder, the diesel engines and the haul roads allowed in this permit. Existing potential emissions are from the screening operation previously permitted in Permit #082007-016.
AMBIENT AIR QUALITY IMPACT ANALYSIS

Screening tools were used to evaluate the ambient air impact of the hourly emissions from this operation. The ambient impact was evaluated at a distance of 300 feet to the nearest property boundary. The ambient impact at this site shall not exceed the National Ambient Air Quality Standard (NAAQS) of 150 µg/m³ of PM₁₀ at or beyond the nearest property boundary in any single 24-hour period. The screening tools were used to develop an ambient impact factors for the crushing operation. The ambient impact factor for the screening operation was developed in the ambient air quality impact analysis performed for permit #082007-016. The ambient impact factors are incorporated into the daily record keeping table, Attachment A.

Table 3: Ambient Air Quality Impact Analysis of PM₁₀, 24-Hour Averaging Time

<table>
<thead>
<tr>
<th>Operation</th>
<th>Ambient Impact Factor (µg/m³/ton)</th>
<th>Modeled Impact (µg/m³)</th>
<th>NAAQS (µg/m³)</th>
<th>Daily Production Limit (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Solitary</td>
<td>0.1866/0.1539</td>
<td>Note 2</td>
<td>150.00</td>
<td>Note 2</td>
</tr>
</tbody>
</table>

Note 1: 0.1866 µg/m³/ton for the crushing operation. 0.1539 µg/m³/ton for the screening operation.
Note 2: The operator(s) must balance production among the two operations such that NAAQS is not exceeded.

APPLICABLE REQUIREMENTS

The owner is subject to compliance with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements.

- Submission of Emission Data, Emission Fees and Process Information, 10 CSR 10-6.110
- Operating Permits, 10 CSR 10-6.085
- No Operating Permit is required for this portable rock crushing plant.
- Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin, 10 CSR 10-6.170
- Restriction of Emission of Visible Air Contaminants, 10 CSR 10-6.220
- Restriction of Emission of Odors, 10 CSR 10-3.090
- Restriction of Emission of Sulfur Compounds, 10 CSR 10-6.260.
- The National Emission Standards for Hazardous Air Pollutants (NESHAPs) and the currently promulgated Maximum Achievable Control Technology (MACT) regulations do not apply to the proposed equipment.

STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, Construction Permits Required, I recommend this permit be granted with/without special conditions.

Chia-Wei Young Date
Environmental Engineer

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, designating Hughes Brothers Construction, LLC as the owner and operator of the installation.
- Environmental Protection Agency (EPA) AP-42, Compilation of Air Pollutant Emission Factors; Volume I, Stationary Point and Area Sources, Fifth Edition.
- Spreadsheet calculations of potential-to-emit and ambient impact.
- Southwest Regional Office Site Survey.
- Best Management Practices
## Attachment A: Daily Ambient PM$_{10}$ Impact Tracking Record

**Hughes Brother Construction, LLC, PORT-0601 – Portable Rock Crushing Plant**

<table>
<thead>
<tr>
<th>Date</th>
<th>Daily Production (tons)</th>
<th>Ambient Impact Factor (µg/m$^3$/ton)</th>
<th>¹Daily PM$_{10}$ Impact (µg/m$^3$)</th>
<th>Daily Production (tons)</th>
<th>Ambient Impact Factor (µg/m$^3$/ton)</th>
<th>¹Daily PM$_{10}$ Impact (µg/m$^3$)</th>
<th>Background PM$_{10}$ Level (µg/m$^3$)</th>
<th>TOTAL PM$_{10}$ Level (µg/m$^3$)</th>
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<tbody>
<tr>
<td>3/17</td>
<td>200</td>
<td>0.1866</td>
<td>37.32</td>
<td>500</td>
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<td>76.95</td>
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<tr>
<td>Note 1:</td>
<td>The Daily PM$_{10}$ Impact (µg/m$^3$) for each operation is calculated by multiplying the Daily Production (tons) by the matching Ambient Impact Factor.</td>
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<td>Note 2:</td>
<td>Background PM$_{10}$ Level (µg/m$^3$) is not applicable.</td>
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<td>Note 3:</td>
<td>The TOTAL PM$<em>{10}$ Level (µg/m$^3$) is calculated by summing the Daily PM$</em>{10}$ Ambient Impact(s) from the crushing and screening operations. A TOTAL PM$_{10}$ Level of less than 150 µg/m$^3$ in any 24-hour period indicates compliance.</td>
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Attachment AA: Best Management Practices (BMPs)- Construction Industry
Fugitive Emissions

Construction Industry Sites covered by the Interim Relief Policy shall maintain Best Management Control Practices (BMPs) for fugitive emission areas at their installations when in operation. Options for BMPs are at least one of the following:

For Haul Roads:

1. **Pavement of Road Surfaces** –
   A. The operator(s) may pave all or any portion of the haul roads with materials such as asphalt, concrete, and/or other material(s) after receiving approval from the program. The pavement will be applied in accordance with industry standards for such pavement so as to achieve “Control of Fugitive Emissions” while the plant is operating.
   B. Maintenance and/or repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator(s) shall periodically water, wash and/or otherwise clean all of the paved portions of the haul road(s) as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. **Usage of Chemical Dust Suppressants** –
   A. The operator(s) shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to all the unpaved portions of the haul roads. The suppressant will be applied in accordance with the manufacturer’s suggested application rate (if available) and re-applied as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
   B. The quantities of the chemical dust suppressant shall be applied, re-applied and/or maintained sufficient to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator(s) shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

3. **Usage of Documented Watering** –
   A. The operator(s) shall control the fugitive emissions from all the unpaved portions of the haul roads at the installation by consistently and correctly using the application of a water spray. Documented watering will be applied in accordance with a recommended application rate of 100 gallons per day per 1,000 square feet of unpaved/untreated surface area of haul roads as necessary to achieve control of fugitive emissions from these areas while the plant is operating. For example, the operator(s) shall calculate the total square feet of unpaved vehicle activity area requiring control on any particular day, divide that product by 1,000, and multiply the quotient by 100 gallons for that day.
   B. The operator(s) shall maintain a log that documents daily water applications. This log shall include, but is not limited to, date and volumes (e.g., number of tanker applications and/or total gallons used) of water application. The log shall also record rationale for not applying water on day(s) the plant is in operation (e.g., meteorological situations, precipitation events, freezing, etc.)
   C. Meteorological precipitation of any kind, (e.g. a quarter inch or more rainfall, sleet, snow, and/or freeze thaw conditions) which is sufficient in the amount or condition to achieve control of fugitive emissions from these areas while the plant is operating.
   D. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads. The operator(s) shall record a brief description of such events in the same log as the documented watering.
   E. The operator(s) shall record the date and the amount of water applied for each application on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

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1 For purposes of this document, Control of Fugitive Emissions means to control particulate matter that is not collected by a capture system and visible emissions to the extent necessary to prevent violations of the air pollution law or regulation. (Note: control of visible emission is not the only factor to consider in protection of ambient air quality.)
For Vehicle Activity Areas around Open Storage Piles:

1. Pavement of Stockpile Vehicle Activity Surfaces –
   A. The operator(s) may pave all or any portion of the vehicle activity areas around the storage piles with materials such as asphalt, concrete, and/or other material(s) after receiving approval from the program. The pavement will be applied in accordance with industry standards for such pavement so as to achieve control of fugitive emissions while the plant is operating.
   B. Maintenance and/or repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator(s) shall periodically water, wash and/or otherwise clean all of the paved portions of the vehicle activity areas around the storage piles as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. Usage of Chemical Dust Suppressants –
   A. The operator(s) shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to all the vehicle activity areas around the open storage piles. The suppressant will be applied in accordance with the manufacturer’s suggested application rate (if available) and re-applied as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
   B. The quantities of the chemical dust suppressant shall be applied, re-applied and/or maintained sufficient to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator(s) shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

3. Usage of Documented Watering –
   A. The operator(s) shall control the fugitive emissions from all the vehicle activity areas around the storage piles at the installation by consistently and correctly using the application of a water spray. Documented watering will be applied in accordance with a recommended application rate of 100 gallons per day per 1,000 square feet of unpaved/untreated surface area of vehicle activity areas around the storage piles as necessary to achieve control of fugitive emissions from these areas while the plant is operating. (Refer to example for documented watering of haul roads.)
   B. The operator(s) shall maintain a log that documents daily water applications. This log shall include, but is not limited to, date and volumes (e.g., number of tanker applications and/or total gallons used) of water application. The log shall also record rationale for not applying water on day(s) the plant is in operations (e.g., meteorological situations, precipitation events, freezing, etc.)
   C. Meteorological precipitation of any kind, (e.g. a quarter inch or more rainfall, sleet, snow, and/or freeze thaw conditions) which is sufficient in the amount or condition to achieve control of fugitive emissions from these areas while the plant is operating.
   D. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads. The operator(s) shall record a brief description of such events in the same log as the documented watering.
   E. The operator(s) shall record the date and the amount of water applied for each application on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.
Mr. Justin Hughes  
President  
Hughes Brothers Construction, LLC  
2025 Hampton Road  
Hartville, MO 65667  

RE: New Source Review Permit - Project Number: 2008-11-032  

Dear Mr. Hughes:  

Enclosed with this letter is your New Source Review permit. Please review your permit carefully and note the special conditions, if any, and the requirements in your permit.  

Operation in accordance with the conditions and requirements in your permit and the New Source Review application submitted for project 2008-11-032 is necessary for continued compliance. The section of the permit entitled “Technical Review of Application for Authority to Construct” should not be separated from the main portion of your permit. The entire permit must be retained in your files. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.  

If you have any questions regarding this permit, please do not hesitate to contact Chia-Wei Young at the department’s Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or you may telephone me at (573) 751-4817. Thank you for your attention to this matter.  

Sincerely,  

AIR POLLUTION CONTROL PROGRAM  

Kendall B. Hale  
New Source Review Unit Chief  
KBH: cwyl  

Enclosures  

c: Southwest Regional Office  
PAMS File: 2008-11-032  
Permit Number: