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: 02 2016 - 016
Project Number: 2015-07-015
Installation ID: 167-0042

Parent Company: T & M Stone Quarry LLC
Parent Company Address: PO Box 1080, Bolivar, MO 65613
Installation Name: Fair Play Quarry
Installation Address: Highway 123, Fair Play, MO
Location Information: Polk County, S22 T33N R24W

Application for Authority to Construct was made for:
Construction of a new rock crushing facility at Fair Play Quarry. This review was conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, Construction Permits Required.

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

FEB 29 2016
EFFECTIVE DATE

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 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 devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the Department’s Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant sources(s). The information must be made available within 30 days of actual startup. 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.
SITE SPECIFIC 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) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (12)(A)10. “Conditions required by permitting authority.”

1. **Best Management Practices Requirement**
   Fair Play Quarry shall control fugitive emissions from all of the haul roads and vehicular activity areas at this site by performing BMPs as defined in Attachment AA.

2. **Ambient Air Impact Limitation**
   A. **Fair Play Quarry shall not cause an exceedance of the NAAQS for PM\(_{10}\) of 150.0 µg/m\(^3\) 24-hour average in ambient air.**
   
   B. Fair Play Quarry shall demonstrate compliance with Special Condition 2.A using Attachment A and Attachment B or other equivalent forms that have been approved by the Air Pollution Control Program, including electronic forms. Fair Play Quarry shall account for the impacts from other sources of PM\(_{10}\) as instructed in the attachments.

3. **Annual Emission Limit**
   A. **Fair Play Quarry shall emit less than 15.0 tons of PM\(_{10}\) in any 12-month period from the entire installation.**
   
   B. Fair Play Quarry shall demonstrate compliance with Special Condition 3.A using Attachment C or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.

4. **Moisture Content Testing Requirement**
   A. **Fair Play Quarry shall verify that the moisture content of the processed rock is greater than or equal to 1.5 percent by weight.**
   
   B. Testing shall be conducted according to the method prescribed by the American Society for Testing Materials (ASTM) D-2216, C-566 or another method approved by the Director.
   
   C. The initial test shall be conducted no later than 45 days after the start of operation. A second test shall be performed the calendar year following the initial test during the months of July or August.
   
   D. The test samples shall be taken from rock that has been processed by the plant or from each source of aggregate (e.g. quarry).
SITE SPECIFIC SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

E. The written analytical report shall include the raw data and moisture content of each sample, the test date and the original signature of the individual performing the test. The report shall be filed on-site or at the Fair Play Quarry main office within 30 days of completion of the required test.

F. If the moisture content of either of the two tests is less than the moisture content in Special Condition 4.A, another test may be performed within 15 days of the noncompliant test. If the results of that test is less than the moisture content in Special Condition 4.A, Fair Play Quarry shall either:
1) Apply for a new permit to account for the revised information, or
2) Submit a plan for the installation of wet spray devices to the Compliance/Enforcement Section of the Air Pollution Control Program within 10 days of the second noncompliant test. The wet spray devices shall be installed and operational within 40 days of the second noncompliant test.

G. In lieu of testing, Fair Play Quarry may obtain test results that demonstrate compliance with the moisture content in Special Condition 4.A from the supplier of the aggregate.

5. Minimum Distance to Property Boundary Requirement
The primary emission point shall be located at least 300 feet from the nearest property boundary.

6. Primary Equipment Requirement
Fair Play Quarry shall process all rock through the primary crusher (EP3). Bypassing the primary crusher (EP-3) is prohibited.

7. Nonroad Engine Requirement
Fair Play Quarry’s engine shall not remain at one location within this site longer than 12 consecutive months in order for the engine to meet the definition of a nonroad engine as stated in 40 CFR 89.2. The engine shall be moved with its associated equipment at least once every 12 consecutive months at this site.

8. Record Keeping Requirement
Fair Play Quarry shall maintain all records required by this permit for not less than five years and make them available to any Missouri Department of Natural Resources’ personnel upon request.

9. Reporting Requirement
Fair Play Quarry shall report to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than 10 days after any exceedances of the limitations imposed by this permit.
REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE
SECTION (6) REVIEW
Project Number: 2015-07-015
Installation ID Number: 167-0042
Permit Number:

Fair Play Quarry
Highway 123
Fair Play, MO

Parent Company:
T & M Stone Quarry LLC
PO Box 1080
Bolivar, MO 65613

Polk County, S22 T33N R24W

1

PROJECT DESCRIPTION

T & M Stone Quarry has purchased property south of Fair Play, Missouri in Polk County on the north side of Highway 123. The proposed facility consists of a limestone quarry operation rated at 400 ton per hour and a portable generator that is classified as a non-road engine. The intention is to operate using a diesel generator for the first year until electrical service can be provided. According to this scenario, the diesel engine meets the definition of non-road engine as defined in 40 CFR 89.2 (1)(i). If the diesel engine operates longer than 12 months at this site, then this permit will be required to be amended.

Table 1 lists the equipment, haul roads, and stockpiles. In order to obtain maximum potential of emissions for this facility, emissions were calculated with the product flowing through all of the crushers, screens and associated conveyors. There are three conveyors off of the two screens with a MHDR of zero tons per hour, because the maximum MHDR is calculated through one of the multiple conveyors from each screen. All of the conveyors on the screens can process material at a given time, not exceeding the MHDR of the screen. Total storage piles will be 1.0 acres. The pit (interior) haul road length will be 581 feet (0.11 miles) and the shipping (exterior) haul road will be 1,589 feet (0.301 miles). Fair Play Quarry has proposed using wet spray devices on all the crushers and screens but has also opted for a 1.5% by weight moisture content as specified in Special Condition 4.

Because New Source Performance Standard (NSPS) Subpart OOO applies to this new stationary rock crushing application, a Basic Operating Permit is required and should be applied for within the first 30 days of operation.

No other plants are located at this site, but concurrent operations are permitted.
Table 1: Equipment List

<table>
<thead>
<tr>
<th>Emission Point</th>
<th>Description</th>
<th>MHDR</th>
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</thead>
<tbody>
<tr>
<td>EP-01</td>
<td>Load In</td>
<td>400 tons/hour</td>
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<tr>
<td>EP-02</td>
<td>Grizzly</td>
<td>400 tons/hour</td>
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<tr>
<td>EP-03</td>
<td>Cedar Rapids Primary Crusher</td>
<td>400 tons/hour</td>
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<td>EP-04</td>
<td>Conveyor</td>
<td>400 tons/hour</td>
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<tr>
<td>EP-05</td>
<td>Cedar Rapids Primary Screen</td>
<td>400 tons/hour</td>
</tr>
<tr>
<td>EP-06</td>
<td>Superior Conveyor</td>
<td>0 tons/hour</td>
</tr>
<tr>
<td>EP-07</td>
<td>Kolbart Conveyor</td>
<td>0 tons/hour</td>
</tr>
<tr>
<td>EP-08</td>
<td>Conveyor</td>
<td>400 tons/hour</td>
</tr>
<tr>
<td>EP-09</td>
<td>Secondary Impact Crusher</td>
<td>400 tons/hour</td>
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<td>EP-10</td>
<td>Shop Built Conveyor</td>
<td>400 tons/hour</td>
</tr>
<tr>
<td>EP-11</td>
<td>Cedar Rapids 3 Deck Screen</td>
<td>400 tons/hour</td>
</tr>
<tr>
<td>EP-12</td>
<td>Shop Built Conveyor</td>
<td>400 tons/hour</td>
</tr>
<tr>
<td>EP-13</td>
<td>VSI Crusher</td>
<td>400 tons/hour</td>
</tr>
<tr>
<td>EP-14</td>
<td>Shop Built Conveyor</td>
<td>400 tons/hour</td>
</tr>
<tr>
<td>EP-15</td>
<td>Shop Built Conveyor</td>
<td>0 tons/hour</td>
</tr>
<tr>
<td>EP-16</td>
<td>Shop Built Conveyor</td>
<td>400 tons/hour</td>
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<td>EP-17</td>
<td>Haul Road (Pit) Interior</td>
<td>0.11 miles</td>
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<tr>
<td>EP-18</td>
<td>Haul Road (Shipping) Exterior</td>
<td>0.31 miles</td>
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<tr>
<td>EP-19</td>
<td>Stockpiles</td>
<td>1 Acre</td>
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<td></td>
<td>Non Road Engine CAT 3508</td>
<td>NA</td>
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</table>

The applicant is using one of the methods described in Attachment AA, “Best Management Practices,” to control emissions from haul roads and vehicular activity areas.

This installation is located in Polk County, an attainment area for all criteria pollutants.

This installation is not on the List of Named Installations found in 10 CSR 10-6.020(3)(B), Table 2. The installation’s major source level is 250 tons per year and fugitive emissions are not counted toward major source applicability.

No permits have been issued to Fair Play Quarry from the Air Pollution Control Program.

TABLES

The table below summarizes the emissions of this project. There are no existing actual emissions since this is a new facility. The potential emissions of the application represent the emissions of all equipment and activities assuming continuous operation (8760 hours per year). The conditioned potential emissions include emissions from sources that will limit their production to ensure compliance with the annual emission limit for PM$_{10}$. 
Table 2: Emissions Summary (tons per year)

<table>
<thead>
<tr>
<th>Air Pollutant</th>
<th>De Minimis Level/SMAL</th>
<th>Existing Actual Emissions</th>
<th>Potential Emissions of the Application</th>
<th>Conditioned Potential Emissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>25.0</td>
<td>N/A</td>
<td>160.05</td>
<td>44.34</td>
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<td>PM_{10}</td>
<td>15.0</td>
<td>N/A</td>
<td>54.15</td>
<td>&lt;15.0</td>
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<td>PM$_{2.5}$</td>
<td>10.0</td>
<td>N/A</td>
<td>22.84</td>
<td>6.33</td>
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<td>SO$_X$</td>
<td>40.0</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>NO$_X$</td>
<td>40.0</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VOC</td>
<td>40.0</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>CO</td>
<td>100.0</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>GHG (CO$_2$e)</td>
<td>75,000 / 100,000</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>GHG (mass)</td>
<td>0.0 / 100.0 / 250.0</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Total HAPs</td>
<td>25.0</td>
<td>N/A</td>
<td>N/A</td>
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</table>

N/A = Not Applicable

Table 3 includes site specific haul road and storage pile emissions

Table 3: Ambient Air Quality Impact Analysis

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>NAAQS/ RAL (µg/m$^3$)</th>
<th>Averaging Time</th>
<th>Maximum Modeled Impact (µg/m$^3$)</th>
<th>Limited Impact (µg/m$^3$)</th>
<th>Background (µg/m$^3$)</th>
<th>bDaily Limit (tons/day)</th>
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</thead>
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<tr>
<td>$^{a}$PM$_{10}$ (same)</td>
<td>150.0</td>
<td>24-hour</td>
<td>183.25</td>
<td>130.0</td>
<td>20.0</td>
<td>7,196.9</td>
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<tr>
<td>$^{b}$PM$_{10}$ (separate)</td>
<td>150.0</td>
<td>24-hour</td>
<td>N/A</td>
<td>65.0</td>
<td>85.0</td>
<td>4,657.7</td>
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</table>

$^a$Modeled impact at maximum capacity with controls
$^b$Indirect limit based on compliance with NAAQS.
$^c$Solitary operation or operation with other plants that are owned by T & M Stone Quarry LLC
$^d$Operation with other plants that are not owned by T & M Stone Quarry LLC

EMISSIONS CALCULATIONS

Emissions for the project were calculated using emission factors found in the United States EPA document AP-42 *Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources*, Fifth Edition (AP-42).

Emissions from the rock-crushing equipment were calculated using emission factors from AP-42 Section 11.19.2 “Crushed Stone Processing and Pulverized Mineral Processing,” August 2004. The controlled emission factors were used because the inherent moisture content of the crushed rock is greater than 1.5 % by weight.
The engines emissions were not evaluated for this review as the diesel engine at this site are classified as nonroad engines. 40 CFR 63 Subpart ZZZZ, “National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines” and 40 CFR 60 Subpart IIII, “Standards of Performance for Stationary Compression Ignition Internal Combustion Engines” do not apply. However, if the engines were to remain in one location for longer than 12 consecutive months, it would not be in compliance with this permit because engine emissions were not evaluated. It may also not be in compliance with MACT ZZZZ or NSPS IIII. The nonroad engines are subject to further applicable requirements in 40 CFR 89 and 40 CFR 1039 which are outside the purview of this program.

Emissions from haul roads and vehicular activity areas were calculated using the predictive equation from AP-42 Section 13.2.2 “Unpaved Roads,” November 2006. A 90% control efficiency for PM and PM$_{10}$ and a 40% control efficiency for PM$_{2.5}$ were applied to the emission calculations for the use of BMPs. Emissions from load-in and load-out of storage piles were calculated using the predictive equation from AP-42 Section 13.2.4. The moisture content of the aggregate is at least 1.5% by weight. Emissions from wind erosion of storage piles were calculated using an equation found in the Air Pollution Control Program’s Emissions Inventory Questionnaire Form 2.8 “Storage Pile Worksheet.”

**AMBIENT AIR QUALITY IMPACT ANALYSIS**

An ambient air quality impact analysis (AAQIA) was performed to determine the impact of the pollutants listed in Table 3. The Air Pollution Control Program requires an AAQIA of PM$_{10}$ for all asphalt, concrete and rock-crushing plants regardless of the level of PM$_{10}$ emissions if a permit is required. An AAQIA is required for other pollutants if their emissions exceed their respective de minimis or screening model action level (SMAL). The AAQIA was performed using the Air Pollution Control Program’s generic nomographs and when appropriate the EPA modeling software AERSCREEN. For each pollutant that was modeled, the maximum concentration that occurs at or beyond the site boundary was compared to the NAAQS or RAL for the pollutant. If during continuous operation the modeled concentration of a pollutant is greater than the applicable NAAQS or RAL, the plant’s production is limited to ensure compliance with the standard.

This plant uses BMPs to control emissions from haul roads and vehicular activity areas, so emissions from these sources were not included in the AAQIA. Instead they were addressed as a background concentration of 20 µg/m$^3$ of PM$_{10}$ in accordance with the Air Pollution Control Program’s BMPs interim policy.
OPERATING SCENARIOS

The plant is permitted to operate with other plants located at the site as long as the NAAQS is not exceeded. The following scenarios explain how Fair Play Quarry shall demonstrate compliance with the NAAQS.

- When no other plants are located (solitary operation), T & M Stone Quarry LLC must calculate the daily impact of this plant and limit the total impact of this plant to not exceed the NAAQS using Attachment A.

- When plants that are owned by T & M Stone Quarry LLC, which are referred to as same owner plants, are located at the site, T & M Stone Quarry LLC must calculate the daily impact of each plant and limit the total impact of all plants to not exceed the NAAQS using Attachment A.

- When plants that are not owned by T & M Stone Quarry LLC, which are referred to as separate owner plants, are located at the site, T & M Stone Quarry LLC must account for the impacts of these plants as a background concentration and add it to the total impact of all plants owned by T & M Stone Quarry LLC that are operating at the site. This total is limited to not exceed the NAAQS. T & M Stone Quarry LLC will limit the total impact of all plants they own and operate at the site to 65 µg/m³ when any plants they do not own are located at the site. Fair Play Quarry is not permitted to operate with any plant that is not owned by T & M Stone Quarry LLC that has a separate owner background greater than 65 µg/m³. During this scenario, Fair Play Quarry shall use Attachment B to demonstrate compliance with the NAAQS.

PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (6) of Missouri State Rule 10 CSR 10-6.060, Construction Permits Required. Potential emissions of PM$_{10}$ are conditioned below de minimis and no refined modeling is required. Potential emissions of PM are above de minimis but below major source levels. There are no modeling requirements for PM.

APPLICABLE REQUIREMENTS

Fair Play Quarry shall comply with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements. Compliance with these emission standards, based on information submitted in the application, has been verified at the time this application was approved.
GENERAL REQUIREMENTS

• Submission of Emission Data, Emission Fees and Process Information, 10 CSR 10-6.110.

• A Basic Operating Permit application is required for this installation within 30 days of commencement of operations.

• 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 10-6.165

SPECIFIC REQUIREMENTS

• 40 CFR 60 Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants" applies to the equipment requiring opacity testing.

• None of the National Emission Standards for Hazardous Air Pollutants (NESHAPS) or National Emission Standards for Hazardous Air Pollutants for Source Categories (MACTS) apply to the proposed equipment.

STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, Construction Permits Required, I recommend this permit be granted with special conditions.

Kathy Kolb
New Source Review Unit

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

• The Application for Authority to Construct form, dated July 9, 2015, received July 14, 2015, designating T & M Stone Quarry LLC as the owner and operator of the installation.

• Subsequent emails, 9/2/2015; 9/5/2015
This sheet covers the period from ____________________ to ____________________ (Copy as needed)
(Month, Day Year) (Month, Day Year)

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<th>Date</th>
<th>Daily Production (tons)</th>
<th>Impact Factor (µg/m³/ton)</th>
<th>Impact¹ (µg/m³)</th>
<th>Impact² (µg/m³)</th>
<th>Impact³ (µg/m³)</th>
<th>Back-</th>
<th>Total Impact³ (µg/m³)</th>
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<td>Fair Play Quarry 167-0042</td>
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</tbody>
</table>

¹Calculate the impact for 167-0042 by multiplying the daily production by the impact factor.
²Input the impact for any plants owned by T & M Stone Quarry LLC that are operating on the site.
³Calculate the total impact by adding the applicable impacts and background. A total of 150 µg/m³ or less is necessary for compliance.
Attachment B: Ambient Impact Tracking Sheet  
For Separate Owner Operation
Fair Play Quarry 167-0042  
Project Number: 2015-07-015

This sheet covers the period from ________________ to ________________ (Copy as needed)

(Month, Day Year) (Month, Day Year)

<table>
<thead>
<tr>
<th>Date</th>
<th>Daily Production (tons)</th>
<th>Impact Factor (µg/m³/ton)</th>
<th>Impact¹ (µg/m³)</th>
<th>Impact² (µg/m³)</th>
<th>Impact² (µg/m³)</th>
<th>Impact³ (µg/m³)</th>
<th>Background (µg/m³)</th>
<th>Total Impact³ (µg/m³)</th>
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</thead>
<tbody>
<tr>
<td>Example</td>
<td>4,500</td>
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</tbody>
</table>

¹Calculate the impact for 167-0042 by multiplying the daily production by the impact factor.
²Input the impact for any plants owned by T & M Stone Quarry LLC that are operating on the site.
³Calculate the total impact by adding the applicable impacts and backgrounds. A total of 150 µg/m³ or less is necessary for compliance.
This sheet covers the period from ____________________ to ____________________ (Copy as needed)
(Month, Day Year) (Month, Day Year)

<table>
<thead>
<tr>
<th>Month</th>
<th>Production (tons)</th>
<th>Emission Factor (lb/ton)</th>
<th>Monthly Emissions$^1$ (lbs)</th>
<th>Monthly Emissions$^2$ (tons)</th>
<th>12-Month Total Emissions$^3$ (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example</td>
<td>75,000</td>
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</tbody>
</table>

$^1$Multiply the monthly production by the emission factor.
$^2$Divide the monthly emissions (lbs) by 2000.
$^3$Add the monthly emissions (tons) to the sum of the monthly emissions from the previous eleven months. A total of less than 15.0 is necessary for compliance.
Attachment AA: Best Management Practices

Haul roads and vehicular activity areas shall be maintained in accordance with at least one of the following options when the plant is operating.

1. Pavement
   A. The operator shall pave the area with materials such as asphalt, concrete or other materials approved by the Air Pollution Control Program. The pavement will be applied in accordance with industry standards to achieve control of fugitive emissions while the plant is operating.
   B. Maintenance and 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 shall periodically wash or otherwise clean all of the paved portions of the haul roads as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. Application of Chemical Dust Suppressants
   A. The operator shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to unpaved areas.
   B. The quantities of the chemical dust suppressant shall be applied and maintained in accordance with the manufacturer’s recommendation (if available) and in sufficient quantities to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator 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 shall keep these records with the plant for not less than five (5) years and make these records available to Department of Natural Resources’ personnel upon request.

3. Application of Water-Documented Daily
   A. The operator shall apply water to unpaved areas. Water shall be applied at a rate of 100 gallons per day per 1,000 square feet of unpaved or untreated surface area while the plant is operating.
   B. Precipitation may be substituted for watering if the precipitation is greater than one quarter of one inch and is sufficient to control fugitive emissions.
   C. 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.
   D. The operator shall record the date, volume of water application and total surface area of active haul roads or the amount of precipitation that day. The operators shall also record the rational for not watering (e.g. freezing conditions or not operating).
   E. The operator shall keep these records with the plant for not less than five (5) years, and the operator shall make these records available to Department of Natural Resources’ personnel upon request.
APPENDIX A

Abbreviations and Acronyms

% ............ percent
°F ............ degrees Fahrenheit
acfm ......... actual cubic feet per minute
BACT ...... Best Available Control Technology
BMPs ...... Best Management Practices
Btu......... British thermal unit
CAM ........ Compliance Assurance Monitoring
CAS ........ Chemical Abstracts Service
CEMS ....... Continuous Emission Monitor System
CFR ......... Code of Federal Regulations
CO .......... carbon monoxide
CO₂ ........ carbon dioxide
CO₂e ....... carbon dioxide equivalent
COMS ...... Continuous Opacity Monitoring System
CSR ......... Code of State Regulations
dscf ......... dry standard cubic feet
EIQ .......... Emission Inventory Questionnaire
EP .......... Emission Point
EPA ......... Environmental Protection Agency
EU .......... Emission Unit
fps .......... feet per second
ft .......... feet
GACT ....... Generally Available Control Technology
GHG ........ Greenhouse Gas
gpm ......... gallons per minute
gr .......... grains
GWP ......... Global Warming Potential
HAP ......... Hazardous Air Pollutant
hr .......... hour
hp .......... horsepower
lb .......... pound
lbs/hr ...... pounds per hour
MACT ...... Maximum Achievable Control Technology
µg/m³ ....... micrograms per cubic meter
m/s ......... meters per second
Mgal ...... 1,000 gallons
MW .......... megawatt
MHDR ...... maximum hourly design rate

MMBtu.... Million British thermal units
MMCF ..... million cubic feet
MSDS ..... Material Safety Data Sheet
NAAQS ... National Ambient Air Quality Standards
NESHAPs ..National Emissions Standards for Hazardous Air Pollutants
NOₓ ........ nitrogen oxides
NSPS ...... New Source Performance Standards
NSR ...... New Source Review
PM ......... particulate matter
PM₂.₅ ...... particulate matter less than 2.5 microns in aerodynamic diameter
PM₁₀ ...... particulate matter less than 10 microns in aerodynamic diameter
ppm ....... parts per million
PSD ......... Prevention of Significant Deterioration
PTE ........ potential to emit
RACT ...... Reasonable Available Control Technology
RAL ......... Risk Assessment Level
SCC ......... Source Classification Code
scfm ...... standard cubic feet per minute
SDS ......... Safety Data Sheet
SIC ........ Standard Industrial Classification
SIP ......... State Implementation Plan
SMAL .... Screening Model Action Levels
SOₓ ....... sulfur oxides
SO₂ ........ sulfur dioxide
tph .......... tons per hour
tpy .......... tons per year
VMT ......... vehicle miles traveled
VOC ......... Volatile Organic Compound
Mr. Leroy Tarr  
Member  
Fair Play Quarry  
PO Box 1080  
Bolivar, MO 65613  

RE: New Source Review Permit - Project Number: 2015-07-015

Dear Mr. Tarr:

Enclosed with this letter is your permit to construct. Please study it carefully and refer to Appendix A for a list of common abbreviations and acronyms used in the permit. Also, note the special conditions on the accompanying pages. The document entitled, "Review of Application for Authority to Construct," is part of the permit and should be kept with this permit in your files. Operation in accordance with these conditions, your new source review permit application is necessary for continued compliance. 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 were adversely affected by this permit decision, you may be entitled to pursue an appeal before the administrative hearing commission pursuant to Sections 621.250 and 643.075.6 RSMo. To appeal, you must file a petition with the administrative hearing commission within thirty 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 administrative hearing commission, whose contact information is: Administrative Hearing Commission, Truman State Office Building, Room 640, 301 W. High Street, P.O. Box 1557, Jefferson City, Missouri 65102, phone: 573-751-2422, fax: 573-751-5018, website: www.oa.mo.gov/ahc. If you have any questions, please do not hesitate to contact Kathy Kolb, at the department’s Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or at (573) 751-4817.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Susan Heckenkamp  
New Source Review Unit Chief

SH:shl

Enclosures

c: Southwest Regional Office  
PAMS File: 2015-07-015  
Permit Number: