



# NATURAL RESOURCES

Michael L. Parson, Governor

Carol S. Comer, Director

**SEP 05 2018**

ESH Manager  
 Base Rock Minerals – Fruitland Quarry  
 P.O. Box 440459  
 St. Louis, MO 63144

RE: New Source Review Permit Amendment – Permit Number: 122010-013B  
 Project Number: 2018-06-034; Installation Number: 031-0124

Dear Mr. Ruckel:

Base Rock Minerals operates a stationary rock crushing plant at Fruitland Quarry in Jackson, Missouri under Construction Permit No. 122010-013. The plant is capable of crushing up to 650 tons per hour and has historically been powered by a 900 kW diesel generator set. The original construction permit was amended in May 2018 to remove the concurrent operation restriction and to remove the National Ambient Air Quality Standards (NAAQS) limitation for PM<sub>10</sub>, according to the Air Pollution Control Program’s updated construction industry policy: *Ceasing the Use of Nomographs*, dated May 1, 2016. Base Rock Minerals is amending the permit again to remove the generator set, since the crushing plant now operates using line power.

The removal of the generator set will cause the potential emissions of SO<sub>x</sub>, NO<sub>x</sub>, VOCs, CO, and HAPs for the plant to be reduced to zero. Potential PM, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions will also be slightly reduced. Special Condition 4 (annual NO<sub>x</sub> emission limit) & Special Condition 6 (fuel sulfur content limit) of Construction Permit 122010-013 will no longer apply since these conditions are dependent on the use of the generator set. Special Condition 3 will be superseded and reinstated to account for the change in PM<sub>10</sub> emissions. Table 1 provides an updated emissions summary for the crushing plant.

Table 1: Emissions Summary (tons per hour)

Pollutant	<i>De Minimis</i> Level/SMAL	Existing Actual Emissions (2017 EIQ)	Potential Emissions of Process Equipment <sup>a</sup>	Potential Emissions of the Project <sup>b</sup>	Conditioned Potential Emissions <sup>c</sup>
PM	25.0	N/D	N/D	N/D	N/D
PM <sub>10</sub>	15.0	5.45	18.42	107.81	<15.0
PM <sub>2.5</sub>	10.0	0.62	2.68	35.53	4.94
SO <sub>x</sub>	40.0	N/D	N/A	N/A	N/A
NO <sub>x</sub>	40.0	N/D	N/A	N/A	N/A
VOC	40.0	N/D	N/A	N/A	N/A
CO	100.0	N/D	N/A	N/A	N/A
Total HAPs	25.0	N/D	N/A	N/A	N/A

N/A = Not Applicable; N/D = Not Determined

<sup>a</sup> Excludes haul road and storage pile emissions

<sup>b</sup> Includes site specific haul road and storage pile emissions

<sup>c</sup> Conditioned potential emissions account for a voluntary PM<sub>10</sub> de minimis limit



Mr. Ryan Ruckel  
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40 CFR 60, Subpart IIII – *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines* did not previously apply to the generator set; however, 40 CFR 63, Subpart ZZZZ – *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines* did apply. With the removal of the generator set, Subpart ZZZZ will no longer be applicable.

Operation of the crushing plant will not be changed in any way, and Base Rock Minerals shall continue to abide by all effective conditions/requirements of Construction Permit No. 122010-013 and its amendments. This amendment shall be kept onsite along with the original construction permit and be made available to Department of Natural Resources' employees upon request.

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, United States Post Office Building, 131 West High Street, Third Floor, P.O. Box 1557, Jefferson City, Missouri 65102, phone: 573-751-2422, fax: 573-751-5018, website: [www.oa.mo.gov/ahc](http://www.oa.mo.gov/ahc).

If you have any questions regarding this amendment, please do not hesitate to contact Ryan Schott, at the department's Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or at (573) 751-4817. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM



Kendall B. Hale  
Permits Section Chief

KBH:rsj

Enclosures

c: Southeast Regional Office  
PAMS File: 2018-06-034

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**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 to 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."*

Base Rock Minerals – Fruitland Quarry  
Cape Girardeau County (S20, T32N, R13E)

1. **Superseding Condition**  
The conditions of this permit supersede Special Conditions 3, 4 & 6 found in Construction Permit No. 122010-013, previously issued by the Air Pollution Control Program.
2. **Annual PM<sub>10</sub> Emission Limit**
  - A. Base Rock Minerals – Fruitland Quarry shall emit less than 15.0 tons of PM<sub>10</sub> in any consecutive 12-month period from the crushing plant and any associated haul roads and storage piles.
  - B. Base Rock Minerals – Fruitland Quarry shall demonstrate compliance with Special Condition 2.A using Attachment A or an equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.
3. **Record Keeping and Reporting Requirement**
  - A. Base Rock Minerals – Fruitland Quarry shall maintain all records required by this permit for not less than five years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request.
  - B. Base Rock Minerals – Fruitland Quarry shall report to the Air Pollution Control Program's Compliance/Enforcement Section, by mail at P.O. Box 176, Jefferson City, MO 65102 or by email at [AirComplianceReporting@dnr.mo.gov](mailto:AirComplianceReporting@dnr.mo.gov), no later than 10 days after the end of the month during which any record required by this permit shows an exceedance of a limitation imposed by this permit.

