

**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: **032018-008**

Project Number: 2017-12-007  
Installation ID: PORT-0763

Parent Company: Magruder Paving LLC

Parent Company Address: 255 Watson Road, Troy, MO 63379

Installation Name: Magruder, LLC-PORT-0763

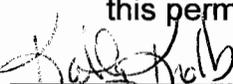
Installation Address: 255 Watson Road, Troy, MO 63379

Location Information: Lincoln County, S12 T49N R1W

Application for Authority to Construct was made for:  
Construction of a new portable RAP crusher. 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.

  
Prepared by  
Kathy Kolb  
New Source Review Unit

  
Director or Designee  
Department of Natural Resources

**MAR 20 2018**

Effective Date

## 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 Enforcement and Compliance Section of 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 Enforcement and Compliance Section of the Department's Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant source(s). The information must be made available within 30 days of actual startup. Also, you must notify the Department's 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 the permit application and this permit and permit review shall be kept at the installation address and shall be made available to Department's 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 source(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 using the contact information below.

Contact Information:  
Missouri Department of Natural Resources  
Air Pollution Control Program  
P.O. Box 176  
Jefferson City, MO 65102-0176  
(573) 751-4817

The regional office information can be found at the following website:  
<http://dnr.mo.gov/regions/>

**GENERAL SPECIAL CONDITIONS:**

The permittee is authorized to construct and operate subject to the following special conditions:

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*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. **Equipment Identification Requirement**  
Magruder, LLC-PORT-0763 shall maintain 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. Magruder, LLC-PORT-0763 shall not be operated at any location longer than 24 consecutive months
  - 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 the circumstances at the site have not changed, then the application must be received by the Air Pollution Control Program at least seven days prior to the relocation.
    - 2) If the portable rock crushing plant is moving to a new site, or if circumstances at the site have changed (e.g. the site was only permitted for solitary operation and now another plant is located at the site), then the application must be received by the Air Pollution Control Program at least 21 days prior to the relocation. The application must include written notification of any concurrently operating plants.
3. **Record Keeping Requirement**  
Magruder, LLC-PORT-0763 shall maintain all records required by this permit for not less than five years and shall make them available to any Missouri Department of Natural Resources' personnel upon request.

**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."*

PORT ID Number: PORT-0763  
Site ID Number: 113-0032  
Site Name: G&M Concrete  
Site Address: 255 Watson Road, Troy, MO 63379  
Site County: Lincoln S12 T49N R1W

PORT ID Number: PORT-0763  
Site ID Number:  
Site Name: New London  
Site Address: 14498 Finn Drive, New London, MO  
Site County: Ralls, S25 T56N R5W

PORT ID Number: PORT-0763  
Site ID Number:  
Site Name: Barnhart  
Site Address: 7017 US Highway 61/67, Barnhart, MO  
Site County: Jefferson, S30 T42N R6E

PORT ID Number: PORT-0763  
Site ID Number:  
Site Name: Miner  
Site Address: 1018 State Highway AA, Miner, MO  
Site County: Scott, S27 T26N R14E

1. **Best Management Practices Requirement**  
Magruder, LLC-PORT-0763 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. **Annual Emission Limit**
  - A. Magruder, LLC-PORT-0763, when located at the New London site, shall emit less than 15.0 tons of PM<sub>10</sub> in any 12-month period from the entire installation which consists of the equipment listed in Table 1. The SSM emissions as reported to the Air Pollution Control Program's Compliance/Enforcement Section in accordance with the requirements of 10 CSR 10-6.050 *Start-Up, Shutdown, and Malfunction Conditions* shall be included in the limit.

**SITE SPECIFIC SPECIAL CONDITIONS:**

The permittee is authorized to construct and operate subject to the following special conditions:

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- B. Magruder, LLC-PORT-0763 shall demonstrate compliance with Special Condition 2.A using Attachment A for the New London location or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.
3. **Moisture Content Testing Requirement**
- A. Magruder, LLC-PORT-0763 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).
- 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 Magruder, LLC-PORT-0763 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 3.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 3.A, Magruder, LLC-PORT-0763 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. Plans may be sent by mail to P.O. Box 176, Jefferson City, MO 65102 or by email at [aircompliancereporting@dnr.mo.gov](mailto:aircompliancereporting@dnr.mo.gov). The wet spray devices shall be installed and operational within 40 days of the second noncompliant test.
- G. In lieu of testing, Magruder, LLC-PORT-0763 may obtain test results that demonstrate compliance with the moisture content in Special Condition 3.A from the supplier of the aggregate.

**SITE SPECIFIC SPECIAL CONDITIONS:**

The permittee is authorized to construct and operate subject to the following special conditions:

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4. **Primary Equipment Requirement**  
Magruder, LLC-PORT-0763 shall process all rock through the screen (EU-03).  
Bypassing the screen is prohibited.
  
5. **Nonroad Engine Requirement**  
Magruder, LLC-PORT-0763's engine shall not remain at one location within this site longer than 12 consecutive months in order for the John Deere 175 HP engine to meet the definition of a nonroad engine as stated in 40 CFR 89.2. These engines shall be moved with its associated equipment at least once every 12 consecutive months at this site.
  
6. **Record Keeping Requirement**  
Magruder, LLC-PORT-0763 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.
  
7. **Reporting Requirement**  
Magruder, LLC-PORT-0763 shall report to the Air Pollution Control Program, Compliance / Enforcement Section by mail to 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 any exceedances of the limitations imposed by this permit.

REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE  
SECTION (6) REVIEW

Project Number: 2017-12-007

Installation ID Number: PORT-0763

Permit Number: 032018-008

Magruder, LLC-PORT-0763:  
255 Watson Road  
Troy, MO 63379

Complete: December 4, 2017

Parent Company:  
Magruder Paving LLC  
255 Watson Road  
Troy, MO 63379

Lincoln County, S12 T49N R1W

PROJECT DESCRIPTION

Magruder Paving LLC is applying to permit a portable Astec Model ProSizer 3100 RAP crusher rated at 200 tons per hour. It was manufactured in 2017 with S/N 154196. It has an attached grizzly feeder, 6' x 12' screen, 32" belt feeder, 36" delivery conveyor, 45" fines conveyor, 24" side conveyor, 15" cross conveyor, and a John Deere 175 HP Tier IV diesel engine that was manufactured in 2017 and classified as a nonroad engine.

PORT-0763 will be initially located at G & M Concrete and Asphalt near Troy, Missouri. Other operational sites included in this permit are New London, Barnhart, and Miner, Missouri.

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.

A John Deere 175 HP Tier IV engine will supply power for the portable plant. The diesel engine meets the definition of non-road engine as defined in 40 CFR 89.2 (1)(i). Therefore, the emissions of the engine were not included. Although a portable plant is allowed to operate at a site for 24 consecutive months, the diesel engine is only allowed to operate at this site for 12 consecutive months in order for the diesel engine to be classified as a non-road engine.

When PORT-0763 is located in Lincoln, Ralls, or Scott county, those counties are an attainment/unclassified area for all criteria pollutants. When PORT-0763 is located in Jefferson County, that county is a marginal nonattainment area for the 2008 8-hour

ozone standard, a moderate nonattainment area for the 1997 PM<sub>2.5</sub> standard, a nonattainment area for 2010 Sulfur Dioxide and an attainment/unclassified area for all other criteria pollutants.

This installation is not on the List of Named Installations [10 CSR 10-6.020(3)(B), Table 2].

## TABLES

Table 1: Equipment List for PORT-0763

Emission Unit	Equipment	MHDR (tph)
EP-01	Loading into crusher/grizzly	200
EP-02	Belt conveyor	200
EP-03	Screen	200
EP-04	Return Conveyor	200
EP-05	Impact Crusher/Astec ProSizer 3100 RAP	200
EP-06	Fines Conveyor	200
EP-07	Side Conveyor	120
EP-08	Cross Conveyor	200
EP-09	Discharge Conveyor	200
EP-10a	Load-in Storage Pile	200
EP-10b	Load-out Storage Pile	200
EP-10c	Vehicular Activity	Varies per site
EP-10d	Wind Erosion	Varies per site
EP-11	Haul Road	Varies per site

The table below summarizes the emissions of this project. The potential emissions of the process equipment, which excluded emissions from haul roads and wind erosion, are not site specific and should not vary from site to site. This is a new portable plant and there are no existing actual emissions. The potential emissions of the application represent the emissions of all equipment and activities assuming continuous operation (8760 hours per year). Conditioned potential emissions account for the voluntary PM<sub>10</sub> annual emission limit to avoid dispersion modeling requirements found in 10 CSR-6.060 Section (6).

Table 2 Emissions Summary (tons per year) G&M Concrete and Asphalt, Troy, MO

Air Pollutant	De Minimis Level/SMAL	<sup>a</sup> Potential Emissions from Process Equipment	Existing Actual Emissions	<sup>b</sup> Potential Emissions of the Application	Conditioned Potential Emissions
PM	25.0	3.67	N/A	29.23	N/A
PM <sub>10</sub>	15.0	1.35	N/A	11.73	N/A
PM <sub>2.5</sub>	10.0	0.20	N/A	2.07	N/A
SO <sub>x</sub>	40.0	N/A	N/A	N/A	N/A
NO <sub>x</sub>	40.0	N/A	N/A	N/A	N/A
VOC	40.0	N/A	N/A	N/A	N/A
CO	100.0	N/A	N/A	N/A	N/A
GHG (CO <sub>2</sub> e)	N/A	N/A	N/A	N/A	N/A
GHG (mass)	N/A	N/A	N/A	N/A	N/A
Total HAPs	25.0	N/A	N/A	N/A	N/A

N/A = Not Applicable

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

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

Table 3: Emissions Summary (tons per year) New London

Air Pollutant	De Minimis Level/SMAL	<sup>a</sup> Potential Emissions from Process Equipment	Existing Actual Emissions	<sup>b</sup> Potential Emissions of the Application	Conditioned Potential Emissions
PM	25.0	3.67	N/A	41.58	40.60
PM <sub>10</sub>	15.0	1.35	N/A	15.36	<15.0
PM <sub>2.5</sub>	10.0	0.20	N/A	3.01	2.94
SO <sub>x</sub>	40.0	N/A	N/A	N/A	N/A
NO <sub>x</sub>	40.0	N/A	N/A	N/A	N/A
VOC	40.0	N/A	N/A	N/A	N/A
CO	100.0	N/A	N/A	N/A	N/A
GHG (CO <sub>2</sub> e)	N/A	N/A	N/A	N/A	N/A
GHG (mass)	N/A	N/A	N/A	N/A	N/A
Total HAPs	25.0	N/A	N/A	N/A	N/A

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

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

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

**Table 4: Emissions Summary (tons per year) Barnhart**

Air Pollutant	De Minimis Level/SMAL	<sup>a</sup> Potential Emissions from Process Equipment	Existing Actual Emissions	<sup>b</sup> Potential Emissions of the Application	Conditioned Potential Emissions
PM	25.0	3.67	N/A	28.17	N/A
PM <sub>10</sub>	15.0	1.35	N/A	11.40	N/A
PM <sub>2.5</sub>	10.0	0.20	N/A	1.99	N/A
SO <sub>x</sub>	40.0	N/A	N/A	N/A	N/A
NO <sub>x</sub>	40.0	N/A	N/A	N/A	N/A
VOC	40.0	N/A	N/A	N/A	N/A
CO	100.0	N/A	N/A	N/A	N/A
GHG (CO <sub>2</sub> e)	N/A	N/A	N/A	N/A	N/A
GHG (mass)	N/A	N/A	N/A	N/A	N/A
Total HAPs	25.0	N/A	N/A	N/A	N/A

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

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

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

**Table 5: Emissions Summary (tons per year) Miner**

Air Pollutant	De Minimis Level/SMAL	<sup>a</sup> Potential Emissions from Process Equipment	Existing Actual Emissions	<sup>b</sup> Potential Emissions of the Application	Conditioned Potential Emissions
PM	25.0	3.67	N/A	34.50	N/A
PM <sub>10</sub>	15.0	1.35	N/A	13.27	N/A
PM <sub>2.5</sub>	10.0	0.20	N/A	2.47	N/A
SO <sub>x</sub>	40.0	N/A	N/A	N/A	N/A
NO <sub>x</sub>	40.0	N/A	N/A	N/A	N/A
VOC	40.0	N/A	N/A	N/A	N/A
CO	100.0	N/A	N/A	N/A	N/A
GHG (CO <sub>2</sub> e)	N/A	N/A	N/A	N/A	N/A
GHG (mass)	N/A	N/A	N/A	N/A	N/A
Total HAPs	25.0	N/A	N/A	N/A	N/A

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

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

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

### EMISSIONS CALCULATIONS

Emissions for the project were calculated as described below and 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:

- 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.

Emissions from aggregate handling:

- 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.

Emissions from haul roads and vehicular activity areas:

- Calculated using the predictive equation from AP-42 Section 13.2.2 "Unpaved Roads," November 2006.
- A 90% control efficiency for PM and PM<sub>10</sub> and a 74% control efficiency for PM<sub>2.5</sub> were applied to the emission calculations for the use of BMPs.

Emissions from storage piles:

- 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 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."

## 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<sub>10</sub> are conditioned below de minimis levels. Potential emissions of PM are above de minimis levels but remain below major levels.

## APPLICABLE REQUIREMENTS

Magruder, LLC-PORT-0763 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.
- An Operating Permit is not required because this installation is a portable 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 10-6.165

## SPECIFIC REQUIREMENTS

- 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.
- 40 CFR 60 Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants" applies to the 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*, it is recommended that this permit be granted with special conditions.

## PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated December 1, 2017, received December 4, 2017, designating Magruder Paving LLC as the owner and operator of the installation.



## 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 rationale 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

<b>%</b> .....	percent	<b>MMBtu</b> ....	Million British thermal units
<b>°F</b> .....	degrees Fahrenheit	<b>MMCF</b> .....	million cubic feet
<b>acfm</b> .....	actual cubic feet per minute	<b>MSDS</b> .....	Material Safety Data Sheet
<b>BACT</b> .....	Best Available Control Technology	<b>NAAQS</b> ....	National Ambient Air Quality Standards
<b>BMPs</b> .....	Best Management Practices	<b>NESHAPs</b> ..	National Emissions Standards for Hazardous Air Pollutants
<b>Btu</b> .....	British thermal unit	<b>NO<sub>x</sub></b> .....	nitrogen oxides
<b>CAM</b> .....	Compliance Assurance Monitoring	<b>NSPS</b> .....	New Source Performance Standards
<b>CAS</b> .....	Chemical Abstracts Service	<b>NSR</b> .....	New Source Review
<b>CEMS</b> .....	Continuous Emission Monitor System	<b>PM</b> .....	particulate matter
<b>CFR</b> .....	Code of Federal Regulations	<b>PM<sub>2.5</sub></b> .....	particulate matter less than 2.5 microns in aerodynamic diameter
<b>CO</b> .....	carbon monoxide	<b>PM<sub>10</sub></b> .....	particulate matter less than 10 microns in aerodynamic diameter
<b>CO<sub>2</sub></b> .....	carbon dioxide	<b>ppm</b> .....	parts per million
<b>CO<sub>2</sub>e</b> .....	carbon dioxide equivalent	<b>PSD</b>	Prevention of Significant Deterioration
<b>COMS</b> .....	Continuous Opacity Monitoring System	<b>PTE</b> .....	potential to emit
<b>CSR</b> .....	Code of State Regulations	<b>RACT</b> .....	Reasonable Available Control Technology
<b>dscf</b> .....	dry standard cubic feet	<b>RAL</b> .....	Risk Assessment Level
<b>EIQ</b> .....	Emission Inventory Questionnaire	<b>SCC</b> .....	Source Classification Code
<b>EP</b> .....	Emission Point	<b>scfm</b> .....	standard cubic feet per minute
<b>EPA</b> .....	Environmental Protection Agency	<b>SDS</b> .....	Safety Data Sheet
<b>EU</b> .....	Emission Unit	<b>SIC</b> .....	Standard Industrial Classification
<b>fps</b> .....	feet per second	<b>SIP</b> .....	State Implementation Plan
<b>ft</b> .....	feet	<b>SMAL</b> .....	Screening Model Action Levels
<b>GACT</b> .....	Generally Available Control Technology	<b>SO<sub>x</sub></b> .....	sulfur oxides
<b>GHG</b> .....	Greenhouse Gas	<b>SO<sub>2</sub></b> .....	sulfur dioxide
<b>gpm</b> .....	gallons per minute	<b>SSM</b> .....	startup, shutdown, & malfunction
<b>gr</b> .....	grains	<b>tph</b> .....	tons per hour
<b>GWP</b> .....	Global Warming Potential	<b>tpy</b> .....	tons per year
<b>HAP</b> .....	Hazardous Air Pollutant	<b>VMT</b> .....	vehicle miles traveled
<b>hr</b> .....	hour	<b>VOC</b> .....	Volatile Organic Compound
<b>hp</b> .....	horsepower		
<b>lb</b> .....	pound		
<b>lbs/hr</b> .....	pounds per hour		
<b>MACT</b> .....	Maximum Achievable Control Technology		
<b>µg/m<sup>3</sup></b> .....	micrograms per cubic meter		
<b>m/s</b> .....	meters per second		
<b>Mgal</b> .....	1,000 gallons		
<b>MW</b> .....	megawatt		
<b>MHDR</b> .....	maximum hourly design rate		

NOTICE: This spreadsheet is for your use only and should be used with caution. MoDNR does not guarantee the accuracy of the information it contains. This spreadsheet is subject to continual revision and updating. It is your responsibility to be aware of the most current, accurate and complete information available. MoDNR is not responsible for errors or omissions in this spreadsheet. Submittal of the information contained in this spreadsheet (workbook) does not relieve the responsible official of the certification statement signed on the first page of the application.

**For Single Plant Operation**

Hours per day	8.0
Days per year	1069.2
Hours per year	8553.8

**For Multiple Plant Operation**

Hours per day	8.0
Days per year	1069.2
Hours per year	8553.8

Pollutant	Justification for Limit
PM10	De Minimis

Pollutant	Potential Emissions of Process Equipment (tons/yr)	Potential Emissions including fugitives (tons/yr)	Allowable Emissions for 8554 hours per year (tons/yr)	De minimis Thresholds	Plant-wide Composite Emission Factor (lb/ton)
PM	3.67	41.58	40.60	25	0.0475
PM <sub>10</sub>	1.35	15.36	15.00	15	0.0175
PM <sub>2.5</sub>	0.20	3.01	2.94	10	0.0034
SO <sub>2</sub>	-	-		40	0.0000
NO <sub>2</sub>	-	-		40	0.0000
VOC	-	-		40	0.0000
CO	-	-		100	0.0000
CH <sub>2</sub> O	-	-		2.00	0.0000
Pb	-	-		0.01	0.0000
HAPs	-	-		10	0.0000
CO <sub>2</sub>	-	-		100	0.0000
N <sub>2</sub> O	-	-		100	0.0000
CH <sub>4</sub>	-	-		100	0.0000
GHG <sub>mass</sub>	-	-		100	0.0000
CO <sub>2</sub> eq	-	-		100,000	0.0000

Limit Hours per Year
Limit Hours per Year w/ 24 hr day

Maximum hourly design rate (tons/hr)	200
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Tons of product per day	1,600.0
Tons of product per year	1,710,753.4





Emission Point Number	Emission Unit Number	Description	SCC	Maximum Hourly	Units of Measure	Control Device Number	Control Type	Capture Efficiency (%)	Control Efficiency (%)	Pollutant	Emission Factor	Emission Rate (lb/yr)	Potential Emissions (ton/yr)	Allowable Emissions (ton/yr)	
	11	Road #1		3.27	VMT per hour		Unpaved, Documented Watering	N/A	90%	PM	11.4463	3.74E+00	16.38	18.00	
								N/A	90%	PM <sub>10</sub>	3.3786	1.10E+00	4.84	4.72	
		N/A						74%	PM <sub>2.5</sub>	0.3378	2.87E-01	1.26	1.23		
		N/A						N/A	PM						
		N/A						N/A	PM <sub>10</sub>						
		N/A						N/A	PM <sub>2.5</sub>						
	Road #2		VMT per hour					N/A	N/A	PM					
								N/A	N/A	PM <sub>10</sub>					
	Road #3		VMT per hour					N/A	N/A	PM					
								N/A	N/A	PM <sub>10</sub>					
	Road #4		VMT per hour					N/A	N/A	PM					
								N/A	N/A	PM <sub>10</sub>					
	Road #5		VMT per hour					N/A	N/A	PM					
								N/A	N/A	PM <sub>10</sub>					
	Road #6		VMT per hour					N/A	N/A	PM					
								N/A	N/A	PM <sub>10</sub>					

Equipment	Unit ID	Description of Unit	Equipment Description/SCC	Heat Rate	Unit per hour	Emission Factor (lb/Unit)	
	Combustion #1					100% N/A PM	
						100% N/A PM <sub>10</sub>	
						100% N/A PM <sub>2.5</sub>	
						100% N/A SO <sub>2</sub>	
						100% N/A NO <sub>x</sub>	
						100% N/A VOC	
						100% N/A CO	
						100% N/A CH <sub>4</sub>	
						100% N/A Pb	
						100% N/A HAPs	
						100% N/A CO <sub>2</sub>	
						100% N/A N <sub>2</sub> O	
	100% N/A GHG <sub>equiv</sub>						
	Combustion #2						100% N/A PM
							100% N/A PM <sub>10</sub>
							100% N/A PM <sub>2.5</sub>
							100% N/A SO <sub>2</sub>
							100% N/A NO <sub>x</sub>
							100% N/A VOC
							100% N/A CO
							100% N/A CH <sub>4</sub>
							100% N/A Pb
							100% N/A HAPs
							100% N/A CO <sub>2</sub>
							100% N/A N <sub>2</sub> O
	100% N/A GHG <sub>equiv</sub>						
	Combustion #3						100% N/A PM
							100% N/A PM <sub>10</sub>
							100% N/A PM <sub>2.5</sub>
							100% N/A SO <sub>2</sub>
							100% N/A NO <sub>x</sub>
							100% N/A VOC
							100% N/A CO
							100% N/A CH <sub>4</sub>
							100% N/A Pb
							100% N/A HAPs
100% N/A CO <sub>2</sub>							
100% N/A N <sub>2</sub> O							
100% N/A GHG <sub>equiv</sub>							

Equipment Operational Status	Emission Unit Number	Description of Unit	Equipment/SCC Description	MHTP	Units	Equip Type	Control Type	Capture Efficiency (%)	Control Efficiency (%)	Pollutant	Emission Factor (lb/Unit)	Emission Rate (lb/yr)	Potential Emissions (ton/yr)	Allowable Emissions (ton/yr)
E	EP-01	loading into crusher/grizzly	Truck Unloading - Fragmented Stone EF 30502031	200.00	Tons	Fugitive Fugitive	Moisture >= 1.5%	100%	0.00%	PM	0.000032	6.40E-03	2.80E-02	2.74E-02
										PM <sub>10</sub>	0.000016	3.20E-03	1.40E-02	1.37E-02
										PM <sub>2.5</sub>	0.000008	1.60E-03	7.01E-03	6.84E-03
E	EP-02	belt feeder	Conveyor 30502006	200.00	Tons	Process Process	Moisture >= 1.5%	100%	95.33%	PM	0.003	2.80E-02	1.23E-01	1.20E-01
										PM <sub>10</sub>	0.0011	9.20E-02	4.03E-02	3.93E-02
										PM <sub>2.5</sub>	0.00031087	2.80E-02	1.14E-02	1.11E-02
E	EP-03	Screen	Screens, (3/16" or Greater) 30502002	200.00	Tons	Process Process	Moisture >= 1.5%	100%	91.20%	PM	0.025	4.40E-01	1.93E+00	1.88E+00
										PM <sub>10</sub>	0.0087	1.48E-01	6.48E-01	6.33E-01
										PM <sub>2.5</sub>	0.000287838	1.00E-02	4.38E-02	4.28E-02
E	EP-04	Return Conveyor	Conveyor 30502006	200.00	Tons	Process Process	Moisture >= 1.5%	100%	95.33%	PM	0.003	2.80E-02	1.23E-01	1.20E-01
										PM <sub>10</sub>	0.0011	9.20E-02	4.03E-02	3.93E-02
										PM <sub>2.5</sub>	0.00031087	2.60E-02	1.14E-02	1.11E-02
E	EP-05	Impact Crusher	Crusher-Primary, (Diameter 3-12") 30502001	200.00	Tons	Process Process	Moisture >= 1.5%	100%	77.78%	PM	0.0054	2.40E-01	1.05E+00	1.03E+00
										PM <sub>10</sub>	0.0004	1.05E-01	4.73E-01	4.63E-01
										PM <sub>2.5</sub>	0.000444444	2.00E-02	8.76E-02	8.55E-02
E	EP-06	Fines conveyor	Conveyor 30502006	200.00	tons	Process Process	Moisture >= 1.5%	100%	95.33%	PM	0.003	2.80E-02	1.23E-01	1.20E-01
										PM <sub>10</sub>	0.0011	9.20E-02	4.03E-02	3.93E-02
										PM <sub>2.5</sub>	0.00031087	2.60E-02	1.14E-02	1.11E-02
	EP-07	Side Conveyor	Conveyor 30502006	120.00	tons	Process Process	Moisture >= 1.5%	100%	95.33%	PM	0.003	1.68E-02	7.36E-02	7.19E-02
										PM <sub>10</sub>	0.0011	6.52E-02	2.42E-02	2.36E-02
										PM <sub>2.5</sub>	0.00031087	1.58E-02	6.83E-02	6.67E-02
	EP-08	Cross Conveyor	Conveyor 30502006	200.00	tons	Process Process	Moisture >= 1.5%	100%	95.33%	PM	0.003	2.80E-02	1.23E-01	1.20E-01
										PM <sub>10</sub>	0.0011	9.20E-02	4.03E-02	3.93E-02
										PM <sub>2.5</sub>	0.00031087	2.60E-02	1.14E-02	1.11E-02
	EP-09	Delivery Conveyor	Conveyor 30502006	200.00	Tons	Process Process	Moisture >= 1.5%	100%	95.33%	PM	0.003	2.80E-02	1.23E-01	1.20E-01
										PM <sub>10</sub>	0.0011	9.20E-02	4.03E-02	3.93E-02
										PM <sub>2.5</sub>	0.00031087	2.60E-02	1.14E-02	1.11E-02

Emission Point Number	Emission Unit Number	Description	SO2	Maximum Hourly	Units of Measure	Control Device Number	Control Type	Capture Efficiency (%)	Control Efficiency (%)	Pollutant	Emission Factor	Emission Factor (lb/Unit)	Emission Rate (lb/hr)	Potential Emissions (tons/yr)	Allowable Emissions (tons/yr)
		EngSet #1 Model Year			gph gallons per hour MMBtu/hour kW-hr			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>x</sub> CO VOC CH <sub>2</sub> O HAPs CO <sub>2</sub> H <sub>2</sub> O GHG <sub>equiv</sub> CH <sub>4</sub>	mmBtu mmBtu mmBtu Gallon mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu				
		EngSet #2 Model Year			gph gallons per hour MMBtu/hour kW-hr			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>x</sub> CO VOC CH <sub>2</sub> O HAPs CO <sub>2</sub> H <sub>2</sub> O GHG <sub>equiv</sub> CH <sub>4</sub>	mmBtu mmBtu mmBtu Gallon mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu				
		EngSet #3 Model Year			gph gallons per hour MMBtu/hour kW-hr			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>x</sub> CO VOC CH <sub>2</sub> O HAPs CO <sub>2</sub> H <sub>2</sub> O GHG <sub>equiv</sub> CH <sub>4</sub>	mmBtu mmBtu mmBtu Gallon mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu				
	10a	Pile #1 Load in		200.00	tons per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>x</sub> CO VOC CH <sub>2</sub> O HAPs CO <sub>2</sub> H <sub>2</sub> O GHG <sub>equiv</sub> CH <sub>4</sub>	0.0087 ton 0.004 ton 0.0006 ton 0.0087 ton 0.0041 ton 0.0006 ton 11.4720 VMT 3.2622 VMT 0.3262 VMT 0.1783 acre-hr 0.0892 acre-hr 0.0134 acre-hr	1.74E+00 8.25E-01 1.25E-01 1.74E+00 8.25E-01 1.25E-01 1.24E+00 3.53E-01 9.18E-02 1.78E-01 8.92E-02 1.34E-02	7.84 3.81 0.65 7.84 3.81 0.55 5.44 1.55 0.40 0.78 0.38 0.06	7.46 3.53 0.63 7.46 3.53 0.53 5.31 1.51 0.39 0.78 0.38 0.06	
	10b	Load out		200.00	tons per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>x</sub> CO VOC CH <sub>2</sub> O HAPs CO <sub>2</sub> H <sub>2</sub> O GHG <sub>equiv</sub> CH <sub>4</sub>	0.0087 ton 0.004 ton 0.0006 ton 0.0087 ton 0.0041 ton 0.0006 ton 11.4720 VMT 3.2622 VMT 0.3262 VMT 0.1783 acre-hr 0.0892 acre-hr 0.0134 acre-hr	1.74E+00 8.25E-01 1.25E-01 1.74E+00 8.25E-01 1.25E-01 1.24E+00 3.53E-01 9.18E-02 1.78E-01 8.92E-02 1.34E-02	7.84 3.81 0.65 7.84 3.81 0.55 5.44 1.55 0.40 0.78 0.38 0.06	7.46 3.53 0.63 7.46 3.53 0.53 5.31 1.51 0.39 0.78 0.38 0.06	
	10c	Vehicular Activity		1.08	VMT per hour		Unpaved, Documented Watering	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>x</sub> CO VOC CH <sub>2</sub> O HAPs CO <sub>2</sub> H <sub>2</sub> O GHG <sub>equiv</sub> CH <sub>4</sub>	11.4720 VMT 3.2622 VMT 0.3262 VMT 0.1783 acre-hr 0.0892 acre-hr 0.0134 acre-hr	1.24E+00 3.53E-01 9.18E-02 1.78E-01 8.92E-02 1.34E-02	5.44 1.55 0.40 0.78 0.38 0.06	5.31 1.51 0.39 0.78 0.38 0.06	
	10d	Wind Erosion		1.00	acres			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>x</sub> CO VOC CH <sub>2</sub> O HAPs CO <sub>2</sub> H <sub>2</sub> O GHG <sub>equiv</sub> CH <sub>4</sub>	0.1783 acre-hr 0.0892 acre-hr 0.0134 acre-hr	1.78E-01 8.92E-02 1.34E-02	0.78 0.38 0.06	0.78 0.38 0.06	
		Pile #2 Load in			tons per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>x</sub> CO VOC CH <sub>2</sub> O HAPs CO <sub>2</sub> H <sub>2</sub> O GHG <sub>equiv</sub> CH <sub>4</sub>	ton ton ton ton ton ton ton ton ton ton ton ton				
		Load out			tons per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>x</sub> CO VOC CH <sub>2</sub> O HAPs CO <sub>2</sub> H <sub>2</sub> O GHG <sub>equiv</sub> CH <sub>4</sub>	ton ton ton ton ton ton ton ton ton ton ton ton				
		Vehicular Activity			VMT per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>x</sub> CO VOC CH <sub>2</sub> O HAPs CO <sub>2</sub> H <sub>2</sub> O GHG <sub>equiv</sub> CH <sub>4</sub>	VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT				
		Wind Erosion			acres			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>x</sub> CO VOC CH <sub>2</sub> O HAPs CO <sub>2</sub> H <sub>2</sub> O GHG <sub>equiv</sub> CH <sub>4</sub>	acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr				
		Pile #3 Load in			tons per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>x</sub> CO VOC CH <sub>2</sub> O HAPs CO <sub>2</sub> H <sub>2</sub> O GHG <sub>equiv</sub> CH <sub>4</sub>	ton ton ton ton ton ton ton ton ton ton ton ton				
		Load out			tons per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>x</sub> CO VOC CH <sub>2</sub> O HAPs CO <sub>2</sub> H <sub>2</sub> O GHG <sub>equiv</sub> CH <sub>4</sub>	ton ton ton ton ton ton ton ton ton ton ton ton				
		Vehicular Activity			VMT per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>x</sub> CO VOC CH <sub>2</sub> O HAPs CO <sub>2</sub> H <sub>2</sub> O GHG <sub>equiv</sub> CH <sub>4</sub>	VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT				
		Wind Erosion			acres			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>x</sub> CO VOC CH <sub>2</sub> O HAPs CO <sub>2</sub> H <sub>2</sub> O GHG <sub>equiv</sub> CH <sub>4</sub>	acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr				
		Pile #4 Load in			tons per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>x</sub> CO VOC CH <sub>2</sub> O HAPs CO <sub>2</sub> H <sub>2</sub> O GHG <sub>equiv</sub> CH <sub>4</sub>	ton ton ton ton ton ton ton ton ton ton ton ton				
		Load out			tons per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>x</sub> CO VOC CH <sub>2</sub> O HAPs CO <sub>2</sub> H <sub>2</sub> O GHG <sub>equiv</sub> CH <sub>4</sub>	ton ton ton ton ton ton ton ton ton ton ton ton				
		Vehicular Activity			VMT per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>x</sub> CO VOC CH <sub>2</sub> O HAPs CO <sub>2</sub> H <sub>2</sub> O GHG <sub>equiv</sub> CH <sub>4</sub>	VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT				
		Wind Erosion			acres			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>x</sub> CO VOC CH <sub>2</sub> O HAPs CO <sub>2</sub> H <sub>2</sub> O GHG <sub>equiv</sub> CH <sub>4</sub>	acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr				

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For Single Plant Operation

Hours per day	24.0
Days per year	365.0
Hours per year	8760.0

For Multiple Plant Operation

Hours per day	24.0
Days per year	365.0
Hours per year	8760.0

Pollutant Justification for Limit

PM10	De Minimis
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Pollutant	Potential Emissions of Process Equipment (tons/yr)	Potential Emissions including fugitives (tons/yr)	Allowable Emissions for 8760 hours per year (tons/yr)	Deminimis Thresholds	Plant-wide Composite Emission Factor (lb/ton)
PM	3.67	28.17	28.17	25	0.0322
PM <sub>10</sub>	1.35	11.40	11.40	15	0.0130
PM <sub>2.5</sub>	0.20	1.99	1.99	10	0.0023
SO <sub>2</sub>	-	-	-	40	0.0000
NO <sub>2</sub>	-	-	-	40	0.0000
VOC	-	-	-	40	0.0000
CO	-	-	-	100	0.0000
CH <sub>2</sub> O	-	-	-	2.00	0.0000
Pb	-	-	-	0.01	0.0000
HAPs	-	-	-	10	0.0000
CO <sub>2</sub>	-	-	-	100	0.0000
N <sub>2</sub> O	-	-	-	100	0.0000
CH <sub>4</sub>	-	-	-	100	0.0000
GHG <sub>mass</sub>	-	-	-	100	0.0000
CO <sub>2</sub> eq	-	-	-	100,000	0.0000

Limit Hours per Year
Limit Hours per Year w/ 24 hr day

Maximum hourly design rate (tons/hr)	200
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Tons of product per day	4,800.0
Tons of product per year	1,752,000.0





Emission Point Number	Emission Unit Number	Description	SCC	Maximum Hourly	Units of Measure	Control Device Number	Control Type	Capture Efficiency (%)	Control Efficiency (%)	Pollutant	Emission Factor	Emission Factor (lb/Unit)	Emission Rate (lb/hr)	Potential Emissions (tons/yr)	Allowable Emissions (tons/yr)
		EngSet #1 Model Year			gip gallons per hour MMBtu/hour kW-hr			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>2</sub> CO VOC CH <sub>4</sub> HAPs CO <sub>2</sub> N <sub>2</sub> O GHG <sub>non</sub> CH <sub>4</sub>	mmBtu mmBtu mmBtu Gallon mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu				
		EngSet #2 Model Year			gip gallons per hour MMBtu/hour kW-hr			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>2</sub> CO VOC CH <sub>4</sub> HAPs CO <sub>2</sub> N <sub>2</sub> O GHG <sub>non</sub> CH <sub>4</sub>	mmBtu mmBtu mmBtu Gallon mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu				
		EngSet #3 Model Year			gip gallons per hour MMBtu/hour kW-hr			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>2</sub> CO VOC CH <sub>4</sub> HAPs CO <sub>2</sub> N <sub>2</sub> O GHG <sub>non</sub> CH <sub>4</sub>	mmBtu mmBtu mmBtu Gallon mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu mmBtu				
		Pile #1													
10a		Load in		200.00	tons per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>2</sub> CO VOC CH <sub>4</sub> HAPs CO <sub>2</sub> N <sub>2</sub> O GHG <sub>non</sub> CH <sub>4</sub>	0.0087 ton 0.0041 ton 0.0006 ton 0.0041 ton 0.0006 ton 11.4720 VMT 3.2622 VMT 0.3262 VMT 0.1783 acre-hr 0.0892 acre-hr 0.0134 acre-hr	1.74E+00 8.25E-01 1.25E-01 1.74E+00 8.25E-01 1.25E-01 1.24E+00 3.53E-01 9.18E-02 1.78E-01 8.92E-02 1.34E-02	7.84 3.91 0.55 7.84 3.91 0.55 5.44 1.55 0.40 0.78 0.38 0.06	7.84 3.91 0.55 7.84 3.91 0.55 5.44 1.55 0.40 0.78 0.38 0.06	
10b		Load out		200.00	tons per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>2</sub> CO VOC CH <sub>4</sub> HAPs CO <sub>2</sub> N <sub>2</sub> O GHG <sub>non</sub> CH <sub>4</sub>	0.0087 ton 0.0041 ton 0.0006 ton 0.0041 ton 0.0006 ton 11.4720 VMT 3.2622 VMT 0.3262 VMT 0.1783 acre-hr 0.0892 acre-hr 0.0134 acre-hr	1.74E+00 8.25E-01 1.25E-01 1.74E+00 8.25E-01 1.25E-01 1.24E+00 3.53E-01 9.18E-02 1.78E-01 8.92E-02 1.34E-02	7.84 3.91 0.55 7.84 3.91 0.55 5.44 1.55 0.40 0.78 0.38 0.06	7.84 3.91 0.55 7.84 3.91 0.55 5.44 1.55 0.40 0.78 0.38 0.06	
10c		Vehicular Activity		1.08	VMT per hour		Unpaved, Documented Watering	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>2</sub> CO VOC CH <sub>4</sub> HAPs CO <sub>2</sub> N <sub>2</sub> O GHG <sub>non</sub> CH <sub>4</sub>	11.4720 VMT 3.2622 VMT 0.3262 VMT 0.1783 acre-hr 0.0892 acre-hr 0.0134 acre-hr	1.24E+00 3.53E-01 9.18E-02 1.78E-01 8.92E-02 1.34E-02	5.44 1.55 0.40 0.78 0.38 0.06	5.44 1.55 0.40 0.78 0.38 0.06	
10d		Wind Erosion		1.00	acres			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>2</sub> CO VOC CH <sub>4</sub> HAPs CO <sub>2</sub> N <sub>2</sub> O GHG <sub>non</sub> CH <sub>4</sub>	0.1783 acre-hr 0.0892 acre-hr 0.0134 acre-hr	1.78E-01 8.92E-02 1.34E-02	0.78 0.38 0.06	0.78 0.38 0.06	
		Pile #2													
		Load in			tons per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>2</sub> CO VOC CH <sub>4</sub> HAPs CO <sub>2</sub> N <sub>2</sub> O GHG <sub>non</sub> CH <sub>4</sub>	ton ton ton ton ton ton ton ton ton ton ton ton ton				
		Load out			tons per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>2</sub> CO VOC CH <sub>4</sub> HAPs CO <sub>2</sub> N <sub>2</sub> O GHG <sub>non</sub> CH <sub>4</sub>	ton ton ton ton ton ton ton ton ton ton ton ton ton				
		Vehicular Activity			VMT per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>2</sub> CO VOC CH <sub>4</sub> HAPs CO <sub>2</sub> N <sub>2</sub> O GHG <sub>non</sub> CH <sub>4</sub>	VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT				
		Wind Erosion			acres			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>2</sub> CO VOC CH <sub>4</sub> HAPs CO <sub>2</sub> N <sub>2</sub> O GHG <sub>non</sub> CH <sub>4</sub>	acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr				
		Pile #3													
		Load in			tons per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>2</sub> CO VOC CH <sub>4</sub> HAPs CO <sub>2</sub> N <sub>2</sub> O GHG <sub>non</sub> CH <sub>4</sub>	ton ton ton ton ton ton ton ton ton ton ton ton ton				
		Load out			tons per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>2</sub> CO VOC CH <sub>4</sub> HAPs CO <sub>2</sub> N <sub>2</sub> O GHG <sub>non</sub> CH <sub>4</sub>	ton ton ton ton ton ton ton ton ton ton ton ton ton				
		Vehicular Activity			VMT per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>2</sub> CO VOC CH <sub>4</sub> HAPs CO <sub>2</sub> N <sub>2</sub> O GHG <sub>non</sub> CH <sub>4</sub>	VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT				
		Wind Erosion			acres			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>2</sub> CO VOC CH <sub>4</sub> HAPs CO <sub>2</sub> N <sub>2</sub> O GHG <sub>non</sub> CH <sub>4</sub>	acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr				
		Pile #4													
		Load in			tons per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>2</sub> CO VOC CH <sub>4</sub> HAPs CO <sub>2</sub> N <sub>2</sub> O GHG <sub>non</sub> CH <sub>4</sub>	ton ton ton ton ton ton ton ton ton ton ton ton ton				
		Load out			tons per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>2</sub> CO VOC CH <sub>4</sub> HAPs CO <sub>2</sub> N <sub>2</sub> O GHG <sub>non</sub> CH <sub>4</sub>	ton ton ton ton ton ton ton ton ton ton ton ton ton				
		Vehicular Activity			VMT per hour			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>2</sub> CO VOC CH <sub>4</sub> HAPs CO <sub>2</sub> N <sub>2</sub> O GHG <sub>non</sub> CH <sub>4</sub>	VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT VMT				
		Wind Erosion			acres			N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>2</sub> CO VOC CH <sub>4</sub> HAPs CO <sub>2</sub> N <sub>2</sub> O GHG <sub>non</sub> CH <sub>4</sub>	acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr acre-hr				
11		Road #1		0.59	VMT per hour		Unpaved, Documented Watering	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	PM PM <sub>10</sub> PM <sub>2.5</sub> SO <sub>2</sub> NO <sub>2</sub> CO VOC CH <sub>4</sub> HAPs CO <sub>2</sub> N <sub>2</sub> O GHG <sub>non</sub> CH <sub>4</sub>	11.4465 VMT 3.3786 VMT 0.3379 VMT	8.80E-01 2.01E-01 5.22E-02	2.98 0.88 0.23	2.98 0.88 0.23	

Emission Point Number	Emission Unit Number	Description	SCC	Maximum Hourly	Units of Measure	Control Device Number	Control Type	Capture Efficiency (%)	Control Efficiency (%)	Pollutant	Emission Factor	Emission Factor (lbs/L0M)	Emission Rate (lb/hr)	Potential Emissions (ton/yr)	Allowable Emissions (ton/yr)
		Road #2			VMT per hour			N/A	N/A	PM	VMT				
		Road #3			VMT per hour			N/A	N/A	PM <sub>10</sub>	VMT				
		Road #4			VMT per hour			N/A	N/A	PM <sub>2.5</sub>	VMT				
		Road #5			VMT per hour			N/A	N/A	PM	VMT				
		Road #6			VMT per hour			N/A	N/A	PM <sub>10</sub>	VMT				
		Road #6			VMT per hour			N/A	N/A	PM <sub>2.5</sub>	VMT				
		Road #6			VMT per hour			N/A	N/A	PM	VMT				
		Road #6			VMT per hour			N/A	N/A	PM <sub>10</sub>	VMT				
		Road #6			VMT per hour			N/A	N/A	PM <sub>2.5</sub>	VMT				

Equipment	Unit ID	Description of Unit	Equipment Description/SCC	Heat Rate	Units per hour							Emission Factor (lbs/L0M)			
		Combustion #1			mmBtu mgal mmacf				100%	N/A	PM	mgal			
		Combustion #1			mmBtu mgal mmacf				100%	N/A	PM <sub>10</sub>	mgal			
		Combustion #1			mmBtu mgal mmacf				100%	N/A	SO <sub>2</sub>	mgal			
		Combustion #1			mmBtu mgal mmacf				100%	N/A	NO <sub>2</sub>	mgal			
		Combustion #1			mmBtu mgal mmacf				100%	N/A	VOC	mgal			
		Combustion #1			mmBtu mgal mmacf				100%	N/A	CO	mgal			
		Combustion #1			mmBtu mgal mmacf				100%	N/A	CH <sub>2</sub> O	mgal			
		Combustion #1			mmBtu mgal mmacf				100%	N/A	Pb	mgal			
		Combustion #1			mmBtu mgal mmacf				100%	N/A	HAPs	mgal			
		Combustion #1			mmBtu mgal mmacf				100%	N/A	CO <sub>2</sub>	mgal			
		Combustion #1			mmBtu mgal mmacf				100%	N/A	N <sub>2</sub> O	mgal			
		Combustion #1			mmBtu mgal mmacf				100%	N/A	GHG	mgal			
		Combustion #1			mmBtu mgal mmacf				100%	N/A	CH <sub>4</sub>	mgal			
		Combustion #2			mmBtu mgal mmacf				100%	N/A	PM	mgal			
		Combustion #2			mmBtu mgal mmacf				100%	N/A	PM <sub>10</sub>	mgal			
		Combustion #2			mmBtu mgal mmacf				100%	N/A	SO <sub>2</sub>	mgal			
		Combustion #2			mmBtu mgal mmacf				100%	N/A	NO <sub>2</sub>	mgal			
		Combustion #2			mmBtu mgal mmacf				100%	N/A	VOC	mgal			
		Combustion #2			mmBtu mgal mmacf				100%	N/A	CO	mgal			
		Combustion #2			mmBtu mgal mmacf				100%	N/A	CH <sub>2</sub> O	mgal			
		Combustion #2			mmBtu mgal mmacf				100%	N/A	Pb	mgal			
		Combustion #2			mmBtu mgal mmacf				100%	N/A	HAPs	mgal			
		Combustion #2			mmBtu mgal mmacf				100%	N/A	CO <sub>2</sub>	mgal			
		Combustion #2			mmBtu mgal mmacf				100%	N/A	N <sub>2</sub> O	mgal			
		Combustion #2			mmBtu mgal mmacf				100%	N/A	GHG	mgal			
		Combustion #2			mmBtu mgal mmacf				100%	N/A	CH <sub>4</sub>	mgal			
		Combustion #3			mmBtu mgal mmacf				100%	N/A	PM	mgal			
		Combustion #3			mmBtu mgal mmacf				100%	N/A	PM <sub>10</sub>	mgal			
		Combustion #3			mmBtu mgal mmacf				100%	N/A	SO <sub>2</sub>	mgal			
		Combustion #3			mmBtu mgal mmacf				100%	N/A	NO <sub>2</sub>	mgal			
		Combustion #3			mmBtu mgal mmacf				100%	N/A	VOC	mgal			
		Combustion #3			mmBtu mgal mmacf				100%	N/A	CO	mgal			
		Combustion #3			mmBtu mgal mmacf				100%	N/A	CH <sub>2</sub> O	mgal			
		Combustion #3			mmBtu mgal mmacf				100%	N/A	Pb	mgal			
		Combustion #3			mmBtu mgal mmacf				100%	N/A	HAPs	mgal			
		Combustion #3			mmBtu mgal mmacf				100%	N/A	CO <sub>2</sub>	mgal			
		Combustion #3			mmBtu mgal mmacf				100%	N/A	N <sub>2</sub> O	mgal			
		Combustion #3			mmBtu mgal mmacf				100%	N/A	GHG	mgal			
		Combustion #3			mmBtu mgal mmacf				100%	N/A	CH <sub>4</sub>	mgal			

Equipment Operational Status	Emission Unit Number	Description of Unit	Equipment/SCC Description	MHTP	Units	Equip Type	Control Type					Emission Factor (lbs/L0M)			
E	EP-01	loading into crusher/grit/rtzly	Truck Unloading - Fragmented Stone EF 3050203	200.00	Tons	Fugitive	Moisture => 1.5%	100%	0.00%	PM	0.000032	Tons	6.40E-03	2.60E-02	2.60E-02
						Fugitive		100%	0.00%	PM <sub>10</sub>	0.000018	Tons	3.20E-03	1.40E-02	1.40E-02
						Fugitive		100%	0.00%	PM <sub>2.5</sub>	0.000008	Tons	1.60E-03	7.01E-03	7.01E-03
E	EP-02	belt feeder	Conveyor 30502006	200.00	Tons	Process	Moisture => 1.5%	100%	95.82%	PM	0.0011	Tons	2.60E-02	1.23E-01	1.23E-01
						Process		100%	95.82%	PM <sub>10</sub>	0.0011	Tons	9.20E-03	4.03E-02	4.03E-02
						Process		100%	95.82%	PM <sub>2.5</sub>	0.00031087	Tons	2.60E-03	1.14E-02	1.14E-02
E	EP-03	Screen	Screens, (318" or Greater) 30502002	200.00	Tons	Process	Moisture => 1.5%	100%	91.25%	PM	0.003	Tons	4.40E-01	1.93E+00	1.93E+00
						Process		100%	91.49%	PM <sub>10</sub>	0.0087	Tons	1.48E-01	6.48E-01	6.48E-01
						Process		100%	91.49%	PM <sub>2.5</sub>	0.000567838	Tons	1.00E-02	4.38E-02	4.38E-02
E	EP-04	Return Conveyor	Conveyor 30502006	200.00	Tons	Process	Moisture => 1.5%	100%	95.33%	PM	0.003	Tons	2.60E-02	1.23E-01	1.23E-01
						Process		100%	95.82%	PM <sub>10</sub>	0.0011	Tons	9.20E-03	4.03E-02	4.03E-02
						Process		100%	95.82%	PM <sub>2.5</sub>	0.00031087	Tons	2.60E-03	1.14E-02	1.14E-02
E	EP-05	Impact Crusher	Crusher-Primary, (Diameter 3-12") 30502001	200.00	Tons	Process	Moisture => 1.5%	100%	77.76%	PM	0.0054	Tons	2.40E-01	1.05E+00	1.05E+00
						Process		100%	77.50%	PM <sub>10</sub>	0.0024	Tons	1.08E-01	4.73E-01	4.73E-01
						Process		100%	77.50%	PM <sub>2.5</sub>	0.000444444	Tons	2.00E-02	8.78E-02	8.78E-02
E	EP-06	Fines conveyor	Conveyor 30502006	200.00	tons	Process	Moisture => 1.5%	100%	95.33%	PM	0.003	tons	2.60E-02	1.23E-01	1.23E-01
						Process		100%	95.82%	PM <sub>10</sub>	0.0011	tons	9.20E-03	4.03E-02	4.03E-02
						Process		100%	95.82%	PM <sub>2.5</sub>	0.00031087	tons	2.60E-03	1.14E-02	1.14E-02
	EP-07	Side Conveyor	Conveyor 30502006	120.00	tons	Process	Moisture => 1.5%	100%	95.33%	PM	0.003	tons	1.88E-02	7.36E-02	7.36E-02
						Process		100%	95.82%	PM <sub>10</sub>	0.0011	tons	6.62E-03	2.42E-02	2.42E-02
						Process		100%	95.33%	PM <sub>2.5</sub>	0.00031087	tons	1.59E-03	6.93E-03	6.93E-03
	EP-08	Cross Conveyor	Conveyor 30902006	200.00	tons	Process	Moisture => 1.5%	100%	95.33%	PM	0.003	tons	2.60E-02	1.23E-01	1.23E-01
						Process		100%	95.82%	PM <sub>10</sub>	0.0011	tons	9.20E-03	4.03E-02	4.03E-02
						Process		100%	95.82%	PM <sub>2.5</sub>	0.00031087	tons	2.60E-03	1.14E-02	1.14E-02
	EP-09	Delivery Conveyor	Conveyor 30502006	200.00	Tons	Process	Moisture => 1.5%	100%	95.33%	PM	0.003	Tons	2.60E-02	1.23E-01	1.23E-01
						Process		100%	95.82%	PM <sub>10</sub>	0.0011	Tons	9.20E-03	4.03E-02	4.03E-02
						Process		100%	95.82%	PM <sub>2.5</sub>	0.00031087	Tons	2.60E-03	1.14E-02	1.14E-02

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**For Single Plant Operation**

Hours per day	24.0
Days per year	365.0
Hours per year	8760.0

**For Multiple Plant Operation**

Hours per day	24.0
Days per year	365.0
Hours per year	8760.0

Pollutant	Justification for Limit
PM10	De Minimis

Pollutant	Potential Emissions of Process Equipment (tons/yr)	Potential Emissions including fugitives (tons/yr)	Allowable Emissions for 8760 hours per year (tons/yr)	De minimis Thresholds	Plant-wide Composite Emission Factor (lb/ton)
PM	3.67	34.50	34.50	25	0.0394
PM <sub>10</sub>	1.35	13.27	13.27	15	0.0152
PM <sub>2.5</sub>	0.20	2.47	2.47	10	0.0028
SO <sub>2</sub>	-	-	-	40	0.0000
NO <sub>2</sub>	-	-	-	40	0.0000
VOC	-	-	-	40	0.0000
CO	-	-	-	100	0.0000
CH <sub>2</sub> O	-	-	-	2.00	0.0000
Pb	-	-	-	0.01	0.0000
HAPs	-	-	-	10	0.0000
CO <sub>2</sub>	-	-	-	100	0.0000
N <sub>2</sub> O	-	-	-	100	0.0000
CH <sub>4</sub>	-	-	-	100	0.0000
GHG <sub>mass</sub>	-	-	-	100	0.0000
CO <sub>2eq</sub>	-	-	-	100,000	0.0000

Limit Hours per Year
Limit Hours per Year w/ 24 hr day

Maximum hourly design rate (tons/hr)	200
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Tons of product per day	4,800.0
Tons of product per year	1,752,000.0

MINER







Emission Point Number	Emission Unit Number	Description	SCC	Maximum Hourly	Units of Measure	Control Device Number	Control Type	Capture Efficiency (%)	Control Efficiency (%)	Pollutant	Emission Factor	Emission Factor (lbs/UoM)	Emission Rate (lb/hr)	Potential Emissions (tons/yr)	Allowable Emissions (tons/yr)
								N/A	N/A	PM <sub>10</sub>		VMT			
		Road #3			VMT per hour			N/A	N/A	PM <sub>2.5</sub>		VMT			
								N/A	N/A	PM <sub>10</sub>		VMT			
		Road #4			VMT per hour			N/A	N/A	PM <sub>2.5</sub>		VMT			
								N/A	N/A	PM <sub>10</sub>		VMT			
		Road #5			VMT per hour			N/A	N/A	PM <sub>2.5</sub>		VMT			
								N/A	N/A	PM <sub>10</sub>		VMT			
		Road #6			VMT per hour			N/A	N/A	PM <sub>2.5</sub>		VMT			
								N/A	N/A	PM <sub>10</sub>		VMT			

Equipment	Unit ID	Description of Unit	Equipment Description/SCC	Heat Rate	UoM per hour						Emission Factor (lbs/UoM)				
		Combustion #1			mmbtu			100%	N/A	PM <sub>10</sub>		mgal			
					mgal			100%	N/A	PM <sub>2.5</sub>		mgal			
					mmsacf			100%	N/A	SO <sub>2</sub>		mgal			
								100%	N/A	NO <sub>2</sub>		mgal			
								100%	N/A	VOC		mgal			
								100%	N/A	CO		mgal			
								100%	N/A	CH <sub>4</sub>		mgal			
								100%	N/A	Pb		mgal			
								100%	N/A	HAPs		mgal			
								100%	N/A	CO <sub>2</sub>		mgal			
								100%	N/A	N <sub>2</sub> O		mgal			
								100%	N/A	GHG <sub>equiv</sub>		mgal			
								100%	N/A	CH <sub>4</sub>		mgal			
		Combustion #2			mmbtu			100%	N/A	PM <sub>10</sub>		mgal			
					mgal			100%	N/A	PM <sub>2.5</sub>		mgal			
					mmsacf			100%	N/A	SO <sub>2</sub>		mgal			
								100%	N/A	NO <sub>2</sub>		mgal			
								100%	N/A	VOC		mgal			
								100%	N/A	CO		mgal			
								100%	N/A	CH <sub>4</sub>		mgal			
								100%	N/A	Pb		mgal			
								100%	N/A	HAPs		mgal			
								100%	N/A	CO <sub>2</sub>		mgal			
								100%	N/A	N <sub>2</sub> O		mgal			
								100%	N/A	GHG <sub>equiv</sub>		mgal			
								100%	N/A	CH <sub>4</sub>		mgal			
		Combustion #3			mmbtu			100%	N/A	PM <sub>10</sub>		mgal			
					mgal			100%	N/A	PM <sub>2.5</sub>		mgal			
					mmsacf			100%	N/A	SO <sub>2</sub>		mgal			
								100%	N/A	NO <sub>2</sub>		mgal			
								100%	N/A	VOC		mgal			
								100%	N/A	CO		mgal			
								100%	N/A	CH <sub>4</sub>		mgal			
								100%	N/A	Pb		mgal			
								100%	N/A	HAPs		mgal			
								100%	N/A	CO <sub>2</sub>		mgal			
								100%	N/A	N <sub>2</sub> O		mgal			
								100%	N/A	GHG <sub>equiv</sub>		mgal			
								100%	N/A	CH <sub>4</sub>		mgal			

Equipment Operational Status	Emission Unit Number	Description of Unit	Equipment/SCC Description	M/HTP	Units	Equip Type	Control Type				Emission Factor (lbs/UoM)				
E	EP-01	loading into crusher/grizzly	Truck Unloading - Fragmented Stone EF 30502031	200.00	Tons	Fugitive	Moisture => 1.5%	100%	0.00%	PM <sub>10</sub>	0.000032	Tons	8.40E-03	2.80E-02	2.80E-02
						Fugitive		100%	0.00%	PM <sub>2.5</sub>	0.000018	Tons	3.20E-03	1.40E-02	1.40E-02
E	EP-02	belt feeder	Conveyor 30502006	200.00	Tons	Fugitive	Moisture => 1.5%	100%	0.00%	PM <sub>2.5</sub>	0.000008	Tons	1.60E-03	7.01E-03	7.01E-03
						Process		100%	83.33%	PM <sub>10</sub>	0.0011	Tons	2.80E-02	1.23E-01	1.23E-01
						Process		100%	95.82%	PM <sub>2.5</sub>	0.00031087	Tons	9.20E-03	4.03E-02	4.03E-02
E	EP-03	Screen	Screens, (3/16" or Greater) 30502002	200.00	Tons	Process	Moisture => 1.5%	100%	0.00%	PM <sub>10</sub>	0.00031087	Tons	2.80E-02	1.14E-02	1.14E-02
						Process		100%	81.20%	PM <sub>10</sub>	0.0025	Tons	4.40E-01	1.93E+00	1.93E+00
						Process		100%	91.49%	PM <sub>2.5</sub>	0.0007	Tons	1.48E-01	6.48E-01	6.48E-01
E	EP-04	Return Conveyor	Conveyor 30502008	200.00	Tons	Process	Moisture => 1.5%	100%	95.33%	PM <sub>10</sub>	0.00031087	Tons	1.00E-02	4.38E-02	4.38E-02
						Process		100%	95.82%	PM <sub>2.5</sub>	0.0011	Tons	2.80E-02	1.23E-01	1.23E-01
						Process		100%	95.82%	PM <sub>10</sub>	0.00031087	Tons	2.80E-02	1.14E-02	1.14E-02
E	EP-05	Impact Crusher	Crusher-Primary, (Diameter 3-12') 30502001	200.00	Tons	Process	Moisture => 1.5%	100%	77.78%	PM <sub>10</sub>	0.0004	Tons	2.40E-01	1.05E+00	1.05E+00
						Process		100%	77.50%	PM <sub>2.5</sub>	0.0024	Tons	1.08E-01	4.73E-01	4.73E-01
						Process		100%	77.50%	PM <sub>10</sub>	0.00044444	Tons	2.00E-02	8.78E-02	8.78E-02
E	EP-06	Fines conveyor	Conveyor 30502006	200.00	tons	Process	Moisture => 1.5%	100%	95.33%	PM <sub>10</sub>	0.0003	tons	2.80E-02	1.23E-01	1.23E-01
						Process		100%	95.82%	PM <sub>2.5</sub>	0.0011	tons	9.20E-03	4.03E-02	4.03E-02
						Process		100%	95.82%	PM <sub>10</sub>	0.00031087	tons	2.80E-02	1.14E-02	1.14E-02

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**For Single Plant Operation**

Hours per day	24.0
Days per year	466.6
Hours per year	11197.6

**For Multiple Plant Operation**

Hours per day	24.0
Days per year	466.6
Hours per year	11197.6

Pollutant	Justification for Limit
PM10	De Minimis

Pollutant	Potential Emissions of Process Equipment (tons/yr)	Potential Emissions including fugitives (tons/yr)	Allowable Emissions for 11198 hours per year (tons/yr)	De minimis Thresholds	Plant-wide Composite Emission Factor (lb/ton)
PM	3.67	29.29	37.44	25	0.0334
PM <sub>10</sub>	1.35	11.73	15.00	15	0.0134
PM <sub>2.5</sub>	0.20	2.07	2.65	10	0.0024
SO <sub>2</sub>	-	-	-	40	0.0000
NO <sub>2</sub>	-	-	-	40	0.0000
VOC	-	-	-	40	0.0000
CO	-	-	-	100	0.0000
CH <sub>2</sub> O	-	-	-	2.00	0.0000
Pb	-	-	-	0.01	0.0000
HAPs	-	-	-	10	0.0000
CO <sub>2</sub>	-	-	-	100	0.0000
N <sub>2</sub> O	-	-	-	100	0.0000
CH <sub>4</sub>	-	-	-	100	0.0000
GHG <sub>mass</sub>	-	-	-	100	0.0000
CO <sub>2</sub> eq	-	-	-	100,000	0.0000

Limit Hours per Year
Limit Hours per Year w/ 24 hr day

Maximum hourly design rate (tons/hr)	200
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Tons of product per day	4,800.0
Tons of product per year	2,239,517.8



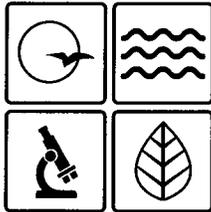


Emission Point Number	Emission Unit Number	Description	SCC	Maximum Hourly	Units of Measure	Control Device Number	Control Type	Capture Efficiency (%)	Control Efficiency (%)	Pollutant	Emission Factor	Emission Factor (baJolM)	Emission Rate (t/yr)	Potential Emissions (ton/yr)	Allowable Emissions (ton/yr)
	EngSet #1	Model Year			gallons per hour MMBtu/hour LW-hr			N/A	N/A	PM <sub>10</sub>		mmBtu			
								N/A	N/A	PM <sub>2.5</sub>		mmBtu			
								N/A	N/A	SO <sub>2</sub>		Gallon			
								N/A	N/A	NO <sub>2</sub>		mmBtu			
								N/A	N/A	CO		mmBtu			
								N/A	N/A	VOC		mmBtu			
								N/A	N/A	CH <sub>4</sub> O		mmBtu			
								N/A	N/A	HAPs		mmBtu			
								N/A	N/A	CO <sub>2</sub>		mmBtu			
								N/A	N/A	N <sub>2</sub> O		mmBtu			
								N/A	N/A	GHG <sub>equiv</sub>		mmBtu			
								N/A	N/A	CH <sub>4</sub>		mmBtu			
	EngSet #2	Model Year			gallons per hour MMBtu/hour LW-hr			N/A	N/A	PM <sub>10</sub>		mmBtu			
								N/A	N/A	PM <sub>2.5</sub>		mmBtu			
								N/A	N/A	SO <sub>2</sub>		Gallon			
								N/A	N/A	NO <sub>2</sub>		mmBtu			
								N/A	N/A	CO		mmBtu			
								N/A	N/A	VOC		mmBtu			
								N/A	N/A	CH <sub>4</sub> O		mmBtu			
								N/A	N/A	HAPs		mmBtu			
								N/A	N/A	CO <sub>2</sub>		mmBtu			
								N/A	N/A	N <sub>2</sub> O		mmBtu			
								N/A	N/A	GHG <sub>equiv</sub>		mmBtu			
								N/A	N/A	CH <sub>4</sub>		mmBtu			
	EngSet #3	Model Year			gallons per hour MMBtu/hour LW-hr			N/A	N/A	PM <sub>10</sub>		mmBtu			
								N/A	N/A	PM <sub>2.5</sub>		mmBtu			
								N/A	N/A	SO <sub>2</sub>		Gallon			
								N/A	N/A	NO <sub>2</sub>		mmBtu			
								N/A	N/A	CO		mmBtu			
								N/A	N/A	VOC		mmBtu			
								N/A	N/A	CH <sub>4</sub> O		mmBtu			
								N/A	N/A	HAPs		mmBtu			
								N/A	N/A	CO <sub>2</sub>		mmBtu			
								N/A	N/A	N <sub>2</sub> O		mmBtu			
								N/A	N/A	GHG <sub>equiv</sub>		mmBtu			
								N/A	N/A	CH <sub>4</sub>		mmBtu			
	Pile #1	Load in		200.00	tons per hour			N/A	N/A	PM <sub>10</sub>	0.0087	ton	1.74E+00	7.64	6.77
								N/A	N/A	PM <sub>2.5</sub>	0.0041	ton	8.25E-01	3.61	4.62
								N/A	N/A	PM <sub>2.5</sub>	0.0008	ton	1.25E-01	0.55	0.70
	10b	Load out		200.00	tons per hour			N/A	N/A	PM <sub>10</sub>	0.0087	ton	1.74E+00	7.64	9.77
								N/A	N/A	PM <sub>2.5</sub>	0.0041	ton	8.25E-01	3.61	4.62
								N/A	N/A	PM <sub>2.5</sub>	0.0008	ton	1.25E-01	0.55	0.70
	10c	Vehicular Activity		1.08	VMT per hour		Unpaved, Documented Watering	N/A	80%	PM <sub>10</sub>	11.4720	VMT	1.24E+00	5.44	6.68
								N/A	90%	PM <sub>2.5</sub>	3.2822	VMT	3.53E-01	1.55	1.98
								N/A	74%	PM <sub>2.5</sub>	0.3362	VMT	9.18E-02	0.40	0.51
	10d	Wind Erosion		1.00	acres			N/A	N/A	PM <sub>10</sub>	0.1763	acre-hr	1.78E-01	0.78	1.00
								N/A	N/A	PM <sub>2.5</sub>	0.0882	acre-hr	8.92E-02	0.39	0.50
								N/A	N/A	PM <sub>2.5</sub>	0.0134	acre-hr	1.34E-02	0.06	0.07
	Pile #2	Load in			tons per hour			N/A	N/A	PM <sub>10</sub>		ton			
								N/A	N/A	PM <sub>2.5</sub>		ton			
		Load out			tons per hour			N/A	N/A	PM <sub>10</sub>		ton			
								N/A	N/A	PM <sub>2.5</sub>		ton			
		Vehicular Activity			VMT per hour			N/A	N/A	PM <sub>10</sub>		VMT			
								N/A	N/A	PM <sub>2.5</sub>		VMT			
		Wind Erosion			acres			N/A	N/A	PM <sub>10</sub>		acre-hr			
								N/A	N/A	PM <sub>2.5</sub>		acre-hr			
	Pile #3	Load in			tons per hour			N/A	N/A	PM <sub>10</sub>		ton			
								N/A	N/A	PM <sub>2.5</sub>		ton			
		Load out			tons per hour			N/A	N/A	PM <sub>10</sub>		ton			
								N/A	N/A	PM <sub>2.5</sub>		ton			
		Vehicular Activity			VMT per hour			N/A	N/A	PM <sub>10</sub>		VMT			
								N/A	N/A	PM <sub>2.5</sub>		VMT			
		Wind Erosion			acres			N/A	N/A	PM <sub>10</sub>		acre-hr			
								N/A	N/A	PM <sub>2.5</sub>		acre-hr			
	Pile #4	Load in			tons per hour			N/A	N/A	PM <sub>10</sub>		ton			
								N/A	N/A	PM <sub>2.5</sub>		ton			
		Load out			tons per hour			N/A	N/A	PM <sub>10</sub>		ton			
								N/A	N/A	PM <sub>2.5</sub>		ton			
		Vehicular Activity			VMT per hour			N/A	N/A	PM <sub>10</sub>		VMT			
								N/A	N/A	PM <sub>2.5</sub>		VMT			
		Wind Erosion			acres			N/A	N/A	PM <sub>10</sub>		acre-hr			
								N/A	N/A	PM <sub>2.5</sub>		acre-hr			
	11	Road #1		0.82	VMT per hour		Unpaved, Documented Watering	N/A	80%	PM <sub>10</sub>	11.4462	VMT	9.35E-01	4.10	5.24
								N/A	90%	PM <sub>2.5</sub>	3.3788	VMT	2.76E-01	1.21	1.56
								N/A	74%	PM <sub>2.5</sub>	0.3379	VMT	7.18E-02	0.31	0.40
		Road #2			VMT per hour			N/A	N/A	PM <sub>10</sub>		VMT			

Emission Point Number	Emission Unit Number	Description	SCC	Maximum Hourly	Units of Measure	Control Device Number	Control Type	Capture Efficiency (%)	Control Efficiency (%)	Pollutant	Emission Factor	Emission Factor (lb/LiM)	Emission Rate (t/yr)	Potential Emissions (ton/yr)	Allowable Emissions (ton/yr)
		Road #3			VMT per hour			N/A	N/A	PM <sub>10</sub>		VMT			
		Road #4			VMT per hour			N/A	N/A	PM <sub>2.5</sub>		VMT			
		Road #5			VMT per hour			N/A	N/A	PM <sub>10</sub>		VMT			
		Road #6			VMT per hour			N/A	N/A	PM <sub>2.5</sub>		VMT			

Equipment	Unit ID	Description of Unit	Equipment Description/SCC	Heat Rate	UoM per hour						Emission Factor (lb/LiM)				
		Combustion #1		mmbtu				100%	N/A	PM <sub>10</sub>	mgal				
				mgal				100%	N/A	PM <sub>2.5</sub>	mgal				
				mmscf				100%	N/A	SO <sub>2</sub>	mgal				
								100%	N/A	NO <sub>x</sub>	mgal				
								100%	N/A	VOC	mgal				
								100%	N/A	CO	mgal				
								100%	N/A	CH <sub>4</sub>	mgal				
								100%	N/A	Pb	mgal				
								100%	N/A	HAPs	mgal				
								100%	N/A	CO <sub>2</sub>	mgal				
								100%	N/A	N <sub>2</sub> O	mgal				
								100%	N/A	GHG <sub>non</sub>	mgal				
								100%	N/A	CH <sub>4</sub>	mgal				
		Combustion #2		mmbtu				100%	N/A	PM <sub>10</sub>	mgal				
				mgal				100%	N/A	PM <sub>2.5</sub>	mgal				
				mmscf				100%	N/A	SO <sub>2</sub>	mgal				
								100%	N/A	NO <sub>x</sub>	mgal				
								100%	N/A	VOC	mgal				
								100%	N/A	CO	mgal				
								100%	N/A	CH <sub>4</sub>	mgal				
								100%	N/A	Pb	mgal				
								100%	N/A	HAPs	mgal				
								100%	N/A	CO <sub>2</sub>	mgal				
								100%	N/A	N <sub>2</sub> O	mgal				
								100%	N/A	GHG <sub>non</sub>	mgal				
								100%	N/A	CH <sub>4</sub>	mgal				
		Combustion #3		mmbtu				100%	N/A	PM <sub>10</sub>	mgal				
				mgal				100%	N/A	PM <sub>2.5</sub>	mgal				
				mmscf				100%	N/A	SO <sub>2</sub>	mgal				
								100%	N/A	NO <sub>x</sub>	mgal				
								100%	N/A	VOC	mgal				
								100%	N/A	CO	mgal				
								100%	N/A	CH <sub>4</sub>	mgal				
								100%	N/A	Pb	mgal				
								100%	N/A	HAPs	mgal				
								100%	N/A	CO <sub>2</sub>	mgal				
								100%	N/A	N <sub>2</sub> O	mgal				
								100%	N/A	GHG <sub>non</sub>	mgal				
								100%	N/A	CH <sub>4</sub>	mgal				

Equipment Operational Status	Emission Unit Number	Description of Unit	Equipment/SCC Description	MHTP	Units	Equip Type	Control Type				Emission Factor (lb/LiM)				
E	EP-01	loading into crusher/grizzly	Truck Unloading - Fragmented Stone EF 3050201	200.00	Tons	Fugitive	Moisture => 1.5%	100%	0.00%	PM	0.000032	Tons	6.48E-03	2.89E-02	3.58E-02
						Fugitive		100%	0.00%	PM <sub>10</sub>	0.000016	Tons	3.20E-03	1.40E-02	1.79E-02
						Fugitive		100%	0.00%	PM <sub>2.5</sub>	0.000008	Tons	1.60E-03	7.01E-03	8.98E-03
E	EP-02	belt feeder	Conveyor 3050206	200.00	Tons	Process	Moisture => 1.5%	100%	95.33%	PM	0.003	Tons	2.90E-02	1.23E-01	1.57E-01
						Process		100%	95.82%	PM <sub>10</sub>	0.0011	Tons	9.20E-03	4.03E-02	5.15E-02
						Process		100%	95.82%	PM <sub>2.5</sub>	0.00031087	Tons	2.90E-03	1.14E-02	1.48E-02
E	EP-03	Screen	Screens, (3/16" or Greater) 30502002	200.00	Tons	Process	Moisture => 1.5%	100%	91.20%	PM	0.025	Tons	4.40E-01	1.93E+00	2.46E+00
						Process		100%	91.49%	PM <sub>10</sub>	0.0087	Tons	1.48E-01	6.48E-01	8.29E-01
						Process		100%	91.49%	PM <sub>2.5</sub>	0.000587638	Tons	1.00E-02	4.38E-02	5.60E-02
E	EP-04	Return Conveyor	Conveyor 3050206	200.00	Tons	Process	Moisture => 1.5%	100%	95.33%	PM	0.003	Tons	2.90E-02	1.23E-01	1.57E-01
						Process		100%	95.82%	PM <sub>10</sub>	0.0011	Tons	9.20E-03	4.03E-02	5.15E-02
						Process		100%	95.82%	PM <sub>2.5</sub>	0.00031087	Tons	2.90E-03	1.14E-02	1.48E-02
E	EP-05	Impact Crusher	Crusher-Primary, (Diameter 3-12') 30502001	200.00	Tons	Process	Moisture => 1.5%	100%	77.78%	PM	0.0054	Tons	2.48E-01	1.05E+00	1.34E+00
						Process		100%	77.50%	PM <sub>10</sub>	0.0024	Tons	1.05E-01	4.75E-01	6.03E-01
						Process		100%	77.50%	PM <sub>2.5</sub>	0.000444444	Tons	2.00E-02	8.76E-02	1.12E-01
E	EP-06	Fines conveyor	Conveyor 3050206	200.00	tons	Process	Moisture => 1.5%	100%	95.33%	PM	0.003	tons	2.90E-02	1.23E-01	1.57E-01
						Process		100%	95.82%	PM <sub>10</sub>	0.0011	tons	9.20E-03	4.03E-02	5.15E-02
						Process		100%	95.82%	PM <sub>2.5</sub>	0.00031087	tons	2.90E-03	1.14E-02	1.48E-02



Missouri Department of dnr.mo.gov

# NATURAL RESOURCES

Eric R. Greitens, Governor

Carol S. Comer, Director

**MAR 20 2018**

Mr. Matt Lindsay  
General Manager  
Magruder, LLC-PORT-0763  
255 Watson Road  
Troy, MO 63379

**032018-008**

RE: New Source Review .- Permit Number:  
Project Number: 2017-12-007; Installation Number: PORT-0763

Dear Mr. Lindsay:

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 is necessary for continued compliance. In addition, please note that Magruder, LLC-PORT-0763 cannot operate with any other plants that have ambient impact limits based on the Air Pollution Control Program's nomographs. Please refer to the permits of any plant that you are operating with to see if their respective permits contain an ambient impact limit. 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.

This permit may include requirements with which you may not be familiar. If you would like the department to meet with you to discuss how to understand and satisfy the requirements contained in this permit, an appointment referred to as a Compliance Assistance Visit (CAV) can be set up with you. To request a CAV, please contact your local regional office or fill out an online request. The regional office contact information can be found at the following website: <http://dnr.mo.gov/regions/>. The online CAV request can be found at <http://dnr.mo.gov/cav/compliance.htm>.

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,



Recycled paper

Mr. Matt Lindsay  
Page Two

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, 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. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM



Susan Heckenkamp  
New Source Review Unit Chief

SH:kkj

Enclosures

c: Northeast Region Regional Office  
PAMS File: 2017-12-007

Permit Number: **032018-008**