

**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: 022018-003

Project Number: 2017-09-013  
Installation ID: 019-0120

Parent Company: Central Concrete Company

Parent Company Address: 2000 Dogwood Lane, Columbia, MO 65201

Installation Name: Central Concrete Co.

Installation Address: Ashland Industrial Court, Ashland, MO 65010

Location Information: Boone County, S35 T47N R12W

Application for Authority to Construct was made for:  
Portable concrete (PORT-0371) will change status to a stationary plant. 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 Koib  
New Source Review Unit

  
Director or Designee  
Department of Natural Resources

**FEB 08 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/>

**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. **Superseding Condition**  
The conditions of this permit supersede all special conditions found in the previously issued construction permit 052005-004D from the Air Pollution Control Program.
2. **Best Management Practices Requirement**  
Central Concrete Co. 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.
3. **Annual Emission Limit**
  - A. Central Concrete Co. 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.
  - B. Central Concrete Co. shall demonstrate compliance with Special Condition 3.A using Attachment A or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.
4. **Moisture Content Testing Requirement**
  - A. Central Concrete Co. 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

**SPECIAL CONDITIONS:**

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

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the test. The report shall be filed on-site or at the Central Concrete Co. 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, Central Concrete Co. 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, Central Concrete Co. may obtain test results that demonstrate compliance with the moisture content in Special Condition 4.A from the supplier of the aggregate.

5. Control Device Requirement-Baghouse

- A. Central Concrete Co. shall control emissions from the equipment listed below using a baghouse (CD-1) as specified in the permit application.
- 1) Cement Silo (EU-3)
  - 2) Supplement Silo (EU-4)
  - 3) Truck Mix Loadout (shroud vented to baghouse) (EU-6)
- B. The baghouse shall be operated and maintained in accordance with the manufacturer's specifications. The baghouse shall be equipped with a gauge or meter, which indicates the pressure drop across the control device. These gauges or meters shall be located such that Department of Natural Resources' employees may easily observe them.
- C. Replacement filters for the baghouse shall be kept on hand at all times. The bags shall be made of fibers appropriate for operating conditions expected to occur (i.e. temperature limits, acidic and alkali resistance, and abrasion resistance).
- D. Central Concrete Co. shall monitor and record the operating pressure drop across the baghouse at least once every 24 hours when the associated equipment is in operation. The operating pressure drop shall be maintained within the design conditions specified by the manufacturer's performance warranty.

**SPECIAL CONDITIONS:**

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

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- E. Central Concrete Co. shall maintain a copy of the baghouse manufacturer's performance warranty on site.
  - F. Central Concrete Co. shall maintain an operating and maintenance log for the baghouse which shall include the following:
    - 1) Incidents of malfunction, with impact on emissions, duration of event, probable cause, and corrective actions; and
    - 2) Maintenance activities, with inspection schedule, repair actions, and replacements, etc.
6. Fuel Requirement-Diesel Generator and Water Heater
- A. Central Concrete Co. shall burn exclusively ultra low sulfur diesel in the diesel generator (EU-7A) with a sulfur content less than or equal to 15 parts per million by weight (15 ppm).
  - B. Central Concrete Co. shall exclusively burn exclusively ultra low sulfur diesel in with a sulfur content less than or equal to 15 parts per million by weight (15 ppm) in their hot water heater (EU-8) during concrete production.
  - C. Central Concrete Co. shall demonstrate compliance with Special Condition 6.A and 6.B by obtaining records of the fuel's sulfur content from the vendor for each shipment of fuel received or by testing each shipment of fuel for the sulfur content in accordance with the method described in 10 CSR 10-6.040 *Reference Methods*.
  - D. Central Concrete Co. shall keep the records required by Special Condition 6.C with the unit and make them available for Department of Natural Resources' employees upon request.
7. Record Keeping Requirement  
Central Concrete Co. 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.
8. Reporting Requirement  
Central Concrete Co. 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, 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: 2017-09-013  
Installation ID Number: 019-0120

Permit Number: 022018-003

Central Concrete Co.:  
Ashland Industrial Court  
Ashland, MO 65010

Complete: September 28, 2017

Parent Company:  
Central Concrete Company  
2000 Dogwood Lane  
Columbia, MO 65201

Boone County, S35 T47N R12W

PROJECT DESCRIPTION

Central Concrete Co. located their portable truck mix plant (PORT-0371) to Ashland, Missouri in Boone County in the fall of 2015 as a portable plant. The plant moved to a location on Angel Lane/Ashland Industrial Court in Boone County to provide concrete for construction activities as the market demands. The 24 month limitation at this location has expired and Central Concrete Co. has the need to remain at this location at the Columbia Regional Airport until the spring of 2018. Therefore this portable plant will change its portable plant status to a stationary plant while operating at this site. This plant has a MHDR of 270 tons per hour and will be powered by a 385 horsepower Kohler diesel generator set, Model Number 250REOZJE. The emissions of the combustion of fuel were included in the review of this project.

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 Boone County, an attainment area for all criteria pollutants.

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

## Tables

**Table 1: Emission Point List**

Emission Point	Description	MHDR	Control Device
EU-1	Aggregate Transfer	125.14 tph	N/A
EU-2	Sand Transfer	95.82 tph	N/A
EU-3	Cement Unloading to Silo	32.94 tph	Baghouse CD-1
EU-4	Supplement Unloading (Pneumatic)	4.90 tph	
EU-5	Weigh Hopper	220.95 tph	N/A
EU-6	Truck Loading	37.84 tph	Baghouse CD-1
EU-7A	Generator (Kohler Model Year 2014)	385 HP	N/A
EU-8	Hot water heater	3.2 MMBTU/hr	N/A
EU-9a	Aggregate Storage Pile-Load in	125.14 tph	N/A
EU-9b	Aggregate Storage Pile-Load out	125.14 7ph	N/A
EU-9c	Aggregate Storage Pile- Vehicular Activity	0.47 MVT	N/A
EU-9d	Aggregate Storage Pile-Wind Erosion	0.5 acres	N/A
EU-10a	Sand Storage Pile-Load in	95.82 tph	N/A
EU-10b	Sand Storage Pile-Load out	95.82 tph	N/A
EU-10c	Sand Storage Pile-Vehicular Activity	0.36 VMT	N/A
EU-10d	Sand Storage Pile-Wind Erosion	0.5 acres	N/A
EU-11	Finished Product Haul Road	3.15 VMT	N/A
EU-12	Aggregate Receiving Haul Road	1.55 VMT	N/A
EP-13	Sand Receiving Haul Road	1.19 VMT	N/A

The following permits have been issued to Central Concrete Co. from the Air Pollution Control Program.

**Table 2: Permit History**

Permit Number	Description
0898-007	Portable Concrete Batch Plant
122004-002	Make Portable Stationary- at Algoa Quarry 051-0068 (Farmers Concrete)
052005-004	Make Portable Stationary at Algoa Quarry 051-0068 (Farmers Concrete)
052005-004D	Relocate PORT-0371 to Ashland, MO

The table below summarizes the emissions of this project. The potential emissions of the process equipment excludes emissions from haul roads and wind erosion. The existing actual emissions were taken from the 2017 EIQ for PORT-0371. 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.

Table 3: Emissions Summary (tons per year)

Air Pollutant	De Minimis Level/SMAL	<sup>a</sup> Potential Emissions from Process Equipment	Existing Actual Emissions (2017 EIQ)	<sup>b</sup> Potential Emissions of the Application	Conditioned Potential Emissions
PM	25.0	14.02	N/A	126.50	44.62
PM <sub>10</sub>	15.0	7.14	0.2616	42.53	<15.0
PM <sub>2.5</sub>	10.0	3.48	0.0694	8.10	2.86
SO <sub>x</sub>	40.0	0.04	0.0112	0.04	0.01
NO <sub>x</sub>	40.0	3.52	0.0048	3.52	1.24
VOC	40.0	0.74	0.0023	0.74	0.26
CO	100.0	13.52	0.0420	13.52	4.77
GHG (CO <sub>2</sub> e)	N/A	1909.83	N/A	1909.83	673.62
GHG (mass)	N/A	1903.43	N/A	1903.43	671.37
Total HAPs	25.0	0.05	0.0001	0.05	0.02

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

## 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 concrete batch plant:

- Calculated using emission factors from AP-42 Section 11.12 "Concrete Batching," June 2006.
- This section cites Equation (1) in Section 13.2.4 "Aggregate Handling and Storage Piles," November 2006 for calculating the emissions from aggregate and sand transfer.
- The cement and supplement silos are controlled with a baghouse, so the controlled emission factors were used.

Emissions from the aggregate weigh hopper:

- Calculated using AP-42 Section 13.2.4, Equation (1).
- The aggregate weigh hopper emissions are not controlled.
- Emissions from mix truck loading are controlled by a shroud vented to a baghouse, so the controlled emission factor was used.



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 the diesel generator:

- Calculated using emission factors from AP-42 Section 3.3 Gasoline and Diesel Industrial Engines," October 1996 and Section 3.4 "Large Stationary Diesel and All Stationary Dual-fuel Engines," October 1996.

Emissions for the hot water heater (diesel):

- Calculated using emission factors from AP-42 Section 1.3 "Fuel Oil Combustion," May 2010.

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 is 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*. The conditioned potential emissions include emissions from sources that will limit their production to ensure compliance with the annual PM<sub>10</sub> emission limit of 15.0 tons per year for stationary plants in order to avoid refined modeling according to 10 CSR 10-6.060 (6)(B)3. Potential emissions of PM are above de minimis but below major source levels. There are no modeling requirements for PM.

## APPLICABLE REQUIREMENTS

Central Concrete Co. 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.
- No operating permit is required because conditioned emissions are below de minimis and there are no federal regulations requiring a concrete plant to obtain an operating permit.
- *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

- *Restriction of Emission of Particulate Matter From Industrial Processes*, 10 CSR 10-6.400. The aggregate weigh hopper's potential emission rate of 1.06 pounds per hour of PM is below the process weight of 61.82 pounds per hour and therefore complies with this regulation.
- 40 CFR Part 63 Subpart ZZZZ, "National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines" applies to the diesel engine that was manufactured in 2014.
- 40 CFR 60 Subpart IIII, "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines"
- 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.
- *Control of Sulfur Dioxide Emissions*, 10 CSR 10-6.261. The concrete plant complies with 10 CSR 10-6.261 (3)(C) because it burns exclusively ultra low sulfur diesel with a sulfur content of 15 ppm in its generator and hot water heater.

## 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 September 1, 2017, received September 13, 2017, designating Central Concrete Company 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>2e</sub></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.

		Pollutant	Justification for Limit	Limit Hours per Year
Hours per day	24.0	PM10	NAAQS	
Days per year	128.7	N/A	N/A	
Hours per year	3089.8	PM10	De Minimis	Limit Hours per Year w/ 24 hr day

Pollutant	Potential Emissions of Process Equipment (tons/yr)	Potential Emissions including fugitives (tons/yr)	Allowable Emissions for 3090 hours per year (tons/yr)	DeMinimis Thresholds	Plant-wide Composite Emission Factor (lb/ton)
PM	14.02	126.50	44.62	25	0.1070
PM <sub>10</sub>	7.14	42.53	15.00	15	0.0360
PM <sub>2.5</sub>	3.48	8.10	2.86	10	0.0068
SO <sub>2</sub>	0.04	0.04	0.01	40	0.0000
NO <sub>2</sub>	3.52	3.52	1.24	40	0.0030
VOC	0.74	0.74	0.26	40	0.0006
CO	13.52	13.52	4.77	100	0.0114
CH <sub>2</sub> O	0.02	0.02	0.01	2	0.0000
C <sub>11</sub> H <sub>10</sub>	0.00	0.00	0.00	-	0.0000
Pb	0.00	0.00	0.00	0.01	0.0000
HAPs	0.05	0.05	0.02	10	0.0000
CO <sub>2</sub>	1903.33	1903.33	671.33	100	1.6094
N <sub>2</sub> O	0.02	0.02	0.01	100	0.0000
CH <sub>4</sub>	0.08	0.08	0.03	100	0.0001
GHG <sub>mass</sub>	1903.43	1903.43	671.37	100	1.6095
CO <sub>2</sub> eq	1909.83	1909.83	673.62	100,000	1.6149

Maximum hourly design rate (tons/hr)	270
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Tons of product per day	6,480.0
Tons of product per year	834,239.8





Cell: C4

Comment: Plant Capacity:  
One cubic yard of concrete weighs approximately two tons

Cell: A26

Comment: Material 1:  
Also known as aggregate, rock. Various limestone products is NOT a valid choice here.

Cell: C40

Comment: Storage Pile ID No.:  
The storage pile No. is not used on the emission factor pages, but rather labeled "Storage Pile"

Cell: D40

Comment: Pile #1:  
This pile is associated with the Aggregate transfer, load-in/loaded-out used there for drop points.

Cell: E40

Comment: Pile #2:  
This pile is associated with the Sand transfer, load-in/loaded-out used there for drop points.

Cell: C41

Comment: Maximum Surface Area of Storage Pile (Acres):  
Enter the total surface area of all storage piles.

Cell: C43

Comment: Storage Pile Materials - Moisture Content Information

Material Stored	Range	Mean
Crushed Limestone *	0.2 to 1.1	0.7
Various Limestone Products	0.46 to 5.0	2.1
Sand	--	7.4
Clay/Dir Mix	--	14.0
Clay	8.9 to 11.0	10.0

\* Additional documentation (i.e. test data, ASTM-C-136 method) should be provided if using a different value for the moisture contents in place of the default (mean) value.

Cell: C44

Comment: Storage Pile Materials - Silt Content Information

Material Stored	Range	Mean
Crushed Limestone *	1.3 to 1.9	1.6
Various Limestone Products	0.8 to 14	14.0
Sand	--	2.8
Clay/Dir Mix	--	9.2
Clay	4.5 to 7.4	6.0

\* Additional documentation (i.e. test data, ASTM-C-136 method) should be provided if using a different value for the silt contents in place of the default (mean) value.

Cell: D44

Comment: Silt Content %:  
The initial default values for silt content should be replaced with site-specific information.

Cell: C48

Comment: Unloaded Loader Weight:  
This data will be used by Paved & Unpaved worksheets to calculate storage pile traffic emissions

Cell: C50

Comment: Rate:  
For Pile #1, the default is the primary crusher size.

Cell: C51

Comment: max VMT per hour:  
MHDR = 2 \* D \* R / (U - L) where:  
MHDR = maximum hourly design rate (VMT/hr)  
D = one way length of haul road (miles)  
R = rate of material hauled (tons/hr)  
U = unloaded truck weight (tons)  
L = loaded truck weight (tons)

Cell: C56

Comment: Haul Road ID No.: Enter a value or number to uniquely identify this emission unit/point at this installation. The value entered for the Haul Road ID No. must be consistent with those in your Emission Inventory Questionnaire (EIQ) and your Operating Permit/Application.

Cell: C58

Comment: Unloaded Truck Weight (Tons): Enter the unloaded weight of the haul trucks. Note: If using haul trucks of varying unloaded weights, then a "fleet" weighted average value should be used and documentation of the analysis should included with your submittal.  
Example: 75% of rock is hauled in a 50 ton truck and 25% is hauled in a 30 ton truck. The "fleet" average unloaded weight would be calculated as follows:  
"Fleet" Avg. Wt. = [(0.75 x 50 tons) + (0.25 x 30 tons)]  
= [(37.5 tons) + (7.5 tons)]  
= 45 tons

Cell: C59

Comment: Average Loaded Truck Weight (Tons): Enter the average loaded weight of the haul trucks. Note: If using haul trucks of varying loaded weights, then a "fleet" weighted average value should be used and documentation of the analysis should included with your submittal.  
Example: 75% of rock is hauled in a 50 ton truck and 25% is hauled in a 30 ton truck. The "fleet" average unloaded weight would be calculated as follows:  
"Fleet" Avg. Wt. = [(0.75 x 50 tons) + (0.25 x 30 tons)]  
= [(37.5 tons) + (7.5 tons)]  
= 45 tons

Cell: C60

Comment: Rate Hauled:  
For Road #1, the default is the primary crusher size.

Cell: C61

Comment: max VMT per hour:  
MHDR = 2 \* D \* R / (U - L) where:  
MHDR = maximum hourly design rate (VMT/hr)  
D = one way length of haul road (miles)  
R = rate of material hauled (tons/hr)  
U = unloaded truck weight (tons)  
L = loaded truck weight (tons)

Cell: D67

Comment: Randy Raymond:  
Because BHP and gallons per hour are linked through code, if you want to erase them, you have to highlight both cells and then hit the delete key.

Cell: D69

Comment: Randy Raymond:  
Because BHP and gallons per hour are linked through code, if you want to erase them, you have to highlight both cells and then hit the delete key.

Cell: C71

Comment: Generator-set engine:  
means an engine used primarily to operate an electrical generator or alternator to produce electric power for other applications.

Cell: C73

Comment: Fuel Sulfur Content:  
From: Randolph, Bob  
Sent: Monday, December 22, 2014 12:05 PM  
To: Little, David  
Cc: Heckenkamp, Susan  
Subject: FW: no permit required concurrence

The Air Quality Planning Section agrees with the 'no construction permit required' determination per the requirements of 10 CSR 10-6.061.

Additional Comment:

Please note that as part of the development of the 1-hour SO2 NAAQS State Implementation Plan, Missouri may in the next few years codify a state regulatory requirement that all diesel powered engines and boilers throughout Missouri (or near large SO2 sources) shall be required to use diesel fuel compliant with federal Ultra Low Sulfur Diesel (ULSD) requirements [15 ppm Sulfur content]. Though the Air Program has been informed by diesel purchasers and users that ULSD is their only option when purchasing diesel fuel in Missouri and throughout the Midwest, the USEPA does not consider the federal requirements to be binding. As a result, Missouri may be required by USEPA to include such a binding ULSD requirement in a future state rulemaking and/or as part of another permit and enforceable mechanism(s). Thank you.

From: Wilbur, Emily  
Sent: Monday, December 15, 2014 1:52 PM  
To: Randolph, Bob  
Subject: FW: no permit required concurrence

From: Little, David  
Sent: Monday, December 15, 2014 1:49 PM  
To: Bybee, Camy; O'Neil, Nathan; Stevens, Jeffrey; Stansfield, Michael; Wilbur, Emily  
Cc: Heckenkamp, Susan  
Subject: no permit required concurrence

The Permits Section is requesting concurrence on a permit determination. A draft no permit required letter is attached. The Permits Section is sending this email to request each section to review the draft letter and provide input and approval.

Please respond to this email by December 22.

Thank you.

David Little, PE  
Missouri Department of Natural Resources  
Air Pollution Control Program  
P.O. Box 176, Jefferson City, MO 65102  
david.little@dnr.mo.gov 573-751-4817

Cell: E76

**Comment:** Desc:  
Enter your own description of combustion source 1.

Cell: D80

**Comment:** Fuel Type:  
You should fill in a choice for both Chap 11 & Part 98 and these choices must coincide.

Cell: D82

**Comment:** Default Fuel Sulfur Content:  
= 15 grams/100 cubic feet (default for Propane)  
= 0.0015 %S (default for Fuel Oil)

Cell: F82

**Comment:** Default Fuel Sulfur Content:  
= 15 grams/100 cubic feet (default for Propane)  
= 0.0015 %S (default for Fuel Oil)

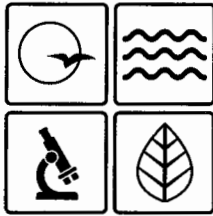
Cell: H82

**Comment:** Default Fuel Sulfur Content:  
= 15 grams/100 cubic feet (default for Propane)  
= 0.0015 %S (default for Fuel Oil)

Emission Point Number	Emission Unit Number	Description	SCC	MHDR	Units	Control Device Number	Control Type	Capture Efficiency (%)	Control Efficiency (%)	Pollutant	Emission Factor	Units (pounds per)	Emission Rate (lb/hr)	Potential Emissions (tons/yr)	Allowable Emissions (tons/yr)
1	1	Aggregate transfer Moisture Content (% wt.) = 1.5	3-05-011-04	125.14	tons per hour			N/A	N/A	PM	0.0087	ton	1.09E+00	4.78	1.69
								N/A	N/A	PM <sub>10</sub>	0.0041	ton	5.16E-01	2.26	0.80
								N/A	N/A	PM <sub>2.5</sub>	0.0006	ton	7.82E-02	0.34	0.12
2	2	Sand transfer Moisture Content (% wt.) = 4.17	3-05-011-05	95.82	tons per hour			N/A	N/A	PM	0.0021	ton	2.06E-01	0.87	0.31
								N/A	N/A	PM <sub>10</sub>	0.0010	ton	9.45E-02	0.41	0.15
								N/A	N/A	PM <sub>2.5</sub>	0.0001	ton	1.43E-02	0.06	0.02
3	3	Cement unloading to silo	3-05-011-07	32.94	tons per hour	Fabric filter		100%	N/A	PM	0.0010	ton	3.28E-02	0.14	0.05
								100%	N/A	PM <sub>10</sub>	0.0003	ton	1.12E-02	0.05	0.02
								100%	N/A	PM <sub>2.5</sub>	0.0003	ton	1.12E-02	0.05	0.02
4	4	Supplement unloading (pneumatic)	3-05-011-17	4.90	tons per hour	Fabric filter		100%	N/A	PM	0.0089	ton	4.36E-02	0.19	0.07
								100%	N/A	PM <sub>10</sub>	0.0049	ton	2.40E-02	0.11	0.04
								100%	N/A	PM <sub>2.5</sub>	0.0049	ton	2.40E-02	0.11	0.04
5	5	Weigh hopper loading	3-05-011-08	220.95	tons per hour	Uncontrolled		N/A	N/A	PM	0.0048	ton	1.06E+00	4.65	1.64
								N/A	N/A	PM <sub>10</sub>	0.0028	ton	6.19E-01	2.71	0.96
								N/A	N/A	PM <sub>2.5</sub>	0.0014	ton	3.18E-01	1.39	0.49
6	6	Truck loading (truck mix) Moisture Content (% wt.) = 0.12	3-05-011-10	37.84	tons per hour	Controlled		N/A	N/A	PM	0.020653965	ton	6.80E-01	2.98	1.05
								N/A	N/A	PM <sub>10</sub>	0.008261586	ton	2.72E-01	1.19	0.42
								N/A	N/A	PM <sub>2.5</sub>	0.008261586	ton	2.72E-01	1.19	0.42
7A	7A	Generator Industrial diesel (< 600 bhp) Model Year 2014	SCC 2-02-001-02	385 19.03366955 2.63	bhp gallons per hour mmBtu/hour			N/A	N/A	PM	4.41E-05	bhp	1.70E-02	0.07	0.026225399
								N/A	N/A	PM <sub>10</sub>	1.05E-04	bhp	4.03E-02	0.18	0.062198717
								N/A	N/A	PM <sub>2.5</sub>	1.03E-04	bhp	3.98E-02	0.17	0.061479634
								N/A	N/A	SO <sub>2</sub>	2.13E-04	Gallon	4.05E-03	0.02	0.006263243
								N/A	N/A	NO <sub>2</sub>	8.82E-04	bhp	3.40E-01	1.49	0.524507978
								N/A	N/A	CO	7.72E-03	bhp	2.97E+00	13.01	4.589444804
								N/A	N/A	VOC	4.19E-04	bhp	1.61E-01	0.71	0.249141289
								N/A	N/A	CH <sub>2</sub> O	1.18E-03	MMBtu	3.10E-03	0.01	0.004788294
								N/A	N/A	HAPs	3.87E-03	MMBtu	1.02E-02	0.04	0.015718588
								N/A	N/A	CO <sub>2</sub>	1.64E+02	MMBtu	4.31E+02	1,886.77	665.4916433
								N/A	N/A	N <sub>2</sub> O	1.32E-03	MMBtu	3.47E-03	0.02	0.005367596
								N/A	N/A	GHG <sub>max</sub>	1.64E+02	MMBtu	4.31E+02	1,886.86	665.5238489
								N/A	N/A	CH <sub>4</sub>	6.61E-03	MMBtu	1.74E-02	0.08	0.026837979
								7B	7B	Generator Model Year			bhp gallons per hour mmBtu/hour		
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>2</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>max</sub>		MMBtu											
N/A	N/A	CH <sub>4</sub>		MMBtu											
7C	7C	Generator Model Year			bhp gallons per hour mmBtu/hour										
								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>2</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>max</sub>		MMBtu			
								N/A	N/A	CH <sub>4</sub>		MMBtu			

Equipment	Unit ID	Description of Unit	Equipment Description/SCC	Heat Rate	UoM per hour						Emission Factor (lbs/UoM)																
	8	Combustion #1	Distillate oil fired (#2, < 10	3.2 mmBtu					100%	N/A	PM	3.30 mgal	7.65E-02	0.34	0.12												
				0.02 mgal						100%	N/A	PM <sub>10</sub>	2.30 mgal	5.33E-02	0.23	0.08											
				mmscf						100%	N/A	PM <sub>2.5</sub>	1.55 mgal	3.59E-02	0.16	0.06											
										100%	N/A	SO <sub>2</sub>	0.21 mgal	4.94E-03	0.02	0.01											
										100%	N/A	NO <sub>2</sub>	20.00 mgal	4.64E-01	2.03	0.72											
										100%	N/A	VOC	0.34 mgal	7.88E-03	0.03	0.01											
										100%	N/A	CO	5.00 mgal	1.16E-01	0.51	0.18											
										100%	N/A	CH <sub>2</sub> O	0.03 mgal	7.65E-04	0.00	0.00											
										100%	N/A	Pb	0.00 mgal	2.88E-05	0.00	0.00											
										100%	N/A	HAPs	0.04 mgal	9.51E-04	0.00	0.00											
										100%	N/A	CO <sub>2</sub>	163.05 mgal	3.78E+00	16.56	5.84											
										100%	N/A	N <sub>2</sub> O	0.00 mgal	3.07E-05	0.00	0.00											
										100%	N/A	GHG <sub>mass</sub>	163.06 mgal	3.78E+00	16.56	5.84											
										100%	N/A	CH <sub>4</sub>	0.01 mgal	1.53E-04	0.00	0.00											
		Combustion #2		mmBtu					100%	N/A	PM	mgal															
				mgal						100%	N/A	PM <sub>10</sub>	mgal														
				mmscf						100%	N/A	PM <sub>2.5</sub>	mgal														
										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>2</sub> O	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>mass</sub>	mgal														
										100%	N/A	CH <sub>4</sub>	mgal														
		Combustion #3		mmBtu					100%	N/A	PM	mgal															
				mgal						100%	N/A	PM <sub>10</sub>	mgal														
				mmscf						100%	N/A	PM <sub>2.5</sub>	mgal														
										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>2</sub> O	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>mass</sub>	mgal														
										100%	N/A	CH <sub>4</sub>	mgal														
	9	Pile #1(used for Aggregate transfer)																									
															9a	Load in	125.14	tons per hour			N/A	N/A	PM	0.0087 ton	1.09E+00	4.78	1.69
																					N/A	N/A	PM <sub>10</sub>	0.0041 ton	5.16E-01	2.26	0.80
																					N/A	N/A	PM <sub>2.5</sub>	0.0006 ton	7.82E-02	0.34	0.12
															9b	Load out	125.14	tons per hour			N/A	N/A	PM	0.0087 ton	1.09E+00	4.78	1.69
																					N/A	N/A	PM <sub>10</sub>	0.0041 ton	5.16E-01	2.26	0.80
																					N/A	N/A	PM <sub>2.5</sub>	0.0006 ton	7.82E-02	0.34	0.12
															9c	Vehicular Activity	0.47	VMT per hour		Unpaved, Documented Watering/Chemical	N/A	90%	PM	8.6868 VMT	4.12E-01	1.80	0.64
																					N/A	90%	PM <sub>10</sub>	2.4702 VMT	1.17E-01	0.51	0.18
																					N/A	74%	PM <sub>2.5</sub>	0.2470 VMT	3.04E-02	0.13	0.05
															9d	Wind Erosion	0.50	acres			N/A	N/A	PM	0.1783 acre-hr	8.92E-02	0.39	0.14
																					N/A	N/A	PM <sub>10</sub>	0.0892 acre-hr	4.46E-02	0.20	0.07
																					N/A	N/A	PM <sub>2.5</sub>	0.0134 acre-hr	6.69E-03	0.03	0.01
																10	Pile #2(used for Sand transfer)										
10a	Load in	95.82	tons per hour			N/A	N/A	PM	0.0021 ton	2.00E-01	0.87	0.31															
						N/A	N/A	PM <sub>10</sub>	0.0010 ton	9.45E-02	0.41	0.15															
						N/A	N/A	PM <sub>2.5</sub>	0.0001 ton	1.43E-02	0.06	0.02															
10b	Load out	95.82	tons per hour			N/A	N/A	PM	0.0021 ton	2.00E-01	0.87	0.31															
						N/A	N/A	PM <sub>10</sub>	0.0010 ton	9.45E-02	0.41	0.15															
						N/A	N/A	PM <sub>2.5</sub>	0.0001 ton	1.43E-02	0.06	0.02															
10c	Vehicular Activity	0.36	VMT per hour		Unpaved, Documented Watering/Chemical	N/A	90%	PM	8.6868 VMT	3.15E-01	1.38	0.49															
						N/A	90%	PM <sub>10</sub>	2.4702 VMT	8.97E-02	0.39	0.14															
						N/A	74%	PM <sub>2.5</sub>	0.2470 VMT	2.33E-02	0.10	0.04															
10d	Wind Erosion	0.50	acres			N/A	N/A	PM	0.2898 acre-hr	1.45E-01	0.63	0.22															
						N/A	N/A	PM <sub>10</sub>	0.1449 acre-hr	7.24E-02	0.32	0.11															
						N/A	N/A	PM <sub>2.5</sub>	0.0217 acre-hr	1.09E-02	0.05	0.02															

		Pile #3																	
		Load in			tons per hour			N/A	N/A	PM		ton							
								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		ton							
								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		VMT							
								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		acre-hr							
								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		ton							
								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		ton							
								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		VMT							
								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		acre-hr							
								N/A	N/A	PM <sub>10</sub>		acre-hr							
								N/A	N/A	PM <sub>2.5</sub>		acre-hr							
11	Road #1		3.15	VMT per hour		Unpaved, Documented Watering/Chemical Application		N/A	90%	PM	9.7789	VMT	3.08E+00	13.48	4.75				
								N/A	90%	PM <sub>10</sub>	2.8864	VMT	9.08E-01	3.98	1.40				
								N/A	74%	PM <sub>2.5</sub>	0.2886	VMT	2.36E-01	1.03	0.36				
12	Road #2		1.55	VMT per hour				N/A	N/A	PM	6.9658	VMT	1.08E+01	47.28	16.68				
								N/A	N/A	PM <sub>10</sub>	2.0560	VMT	3.19E+00	13.96	4.92				
								N/A	N/A	PM <sub>2.5</sub>	0.2056	VMT	3.19E-01	1.40	0.49				
13	Road #3		1.19	VMT per hour				N/A	N/A	PM	6.9658	VMT	8.27E+00	36.20	12.77				
								N/A	N/A	PM <sub>10</sub>	2.0560	VMT	2.44E+00	10.69	3.77				
								N/A	N/A	PM <sub>2.5</sub>	0.2056	VMT	2.44E-01	1.07	0.38				



Missouri Department of

dnr.mo.gov

**NATURAL RESOURCES**

Eric R. Greitens, Governor

Carol S. Comer, Director

**FEB 08 2018**

Mr. James Rutson  
Plant Manager  
Central Concrete Co.  
2000 Dogwood Lane  
Columbia, MO 65201

RE: New Source Review - Permit Number:  
Project Number: 2017-09-013; Installation Number: 019-0120

Dear Mr. Rutson:

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. In addition, please note that Central Concrete Co. 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, 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).



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Mr. James Rutson  
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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.  
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 Regional Office  
PAMS File: 2017-09-013

Permit Number: 022018 - 003