



Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

DEPARTMENT OF NATURAL RESOURCES

www.dnr.mo.gov

MAY 17 2016

Mr. Stephen Strong
Owner
Strong Ready Mix
P.O. Box 1181
St. Joseph, MO 64502

RE: New Source Review Temporary Permit Request - Project Number: 2016-04-002

Expiration Date: December 31, 2016

Temporary Permit Number: **052016-004**

Dear Mr. Strong:

The Missouri Department of Natural Resources' Air Pollution Control Program has completed a review of your request to temporarily operate a truck mix concrete plant in Amity, Missouri. The Air Pollution Control Program is hereby granting your request to conduct this temporary operation at this location in accordance with Missouri State Rule 10 CSR 10-6.060(3).

The Air Pollution Control Program received your application on April 1, 2016 to temporarily operate a truck mix concrete plant located at 4205 SW Patton Road in Amity, Missouri, to produce concrete for a windmill construction project. This concrete plant is rated to produce 225 tons of concrete per hour. White Construction, Inc. has leased farm land in DeKalb County and has contracted Strong Ready Mix to supply concrete for the windmill flooring.

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. 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 are based on compliance to the National Ambient Air Quality Standards (NAAQS) for particulate matter less than 10 microns in aerodynamic diameter (PM₁₀). Per 10 CSR 10-6.060(3), "the permitting authority may exempt temporary installations and pilot plants having a potential to emit under one hundred (100) tons per year of each pollutant." As a result, this temporary permit allows pollutants from this plant to exceed its respective de minimis level, but not exceed 100 tons per year.



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Table 1: Emissions Summary (tons per year)

| Air Pollutant | De Minimis Level | ^a Potential Emissions of Process Equipment | Existing Actual Emissions | ^b Potential Emissions of the Application | Conditioned Potential Emissions |
|-------------------|------------------|---|---------------------------|---|---------------------------------|
| PM | 25.0 | 18.94 | N/A | 67.28 | 41.71 |
| PM ₁₀ | 15.0 | 9.20 | N/A | 28.23 | 17.50 |
| PM _{2.5} | 10.0 | 3.16 | N/A | 8.90 | 5.52 |
| SO _x | 40.0 | N/A | N/A | N/A | N/A |
| NO _x | 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 |
| Lead Compounds | 10.0 | N/A | N/A | N/A | N/A |
| Total HAPs | 25.0 | N/A | N/A | N/A | N/A |

N/A = Not Applicable

^aPotential emissions of the process equipment excludes haul road and storage pile emissions

^bIncludes site specific haul road and storage pile emissions

Table 2: Ambient Air Quality Impact Analysis

| Pollutant | NAAQS ($\mu\text{g}/\text{m}^3$) | Averaging Time | ^a Maximum Modeled Impact ($\mu\text{g}/\text{m}^3$) | Limited Impact ($\mu\text{g}/\text{m}^3$) | Background ($\mu\text{g}/\text{m}^3$) | ^b Daily Limit (tons/day) |
|---|------------------------------------|----------------|--|---|---|-------------------------------------|
| ^c PM ₁₀ (Solitary and Same) | 150.0 | 24-hour | 231.61 | 130.0 | 20.0 | 3,348 |

^aModeled impact at maximum capacity with controls

^bIndirect limit based on compliance with NAAQS

^cSolitary operation or operation with other plants that are owned by Strong Ready Mix

Enclosed with this letter is your permit to construct. Please study it carefully. Also, note the special conditions on the accompanying pages. Operation in accordance with these conditions and your new source review permit application is necessary for continued compliance.

You are obligated to meet all applicable air pollution control rules, Department of Natural Resources' rules, or any other applicable federal, state, or local agency regulations. Specifically, you should avoid violating 10 CSR 10-6.045 *Open Burning Requirements*, 10 CSR 10-6.220, *Restriction of Emission of Visible Air Contaminants*, 10 CSR 10-6.165 *Restriction of Emission of Odors*, 10 CSR 10-6.170 *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*, and 10 CSR 10-6.400 *Restriction of Emission of Particulate Matter From Industrial Processes*.

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A copy of this letter should be kept with the unit and be made available to Department of Natural Resources' personnel upon verbal request. If you have any questions regarding this determination, please do not hesitate to contact Daronn A. Williams at the departments' Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or by telephone at (573) 751-4817. Thank you for your time and attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Kendall B. Hale for

Kyra L. Moore
Director

KLM:dwj

Enclosure

c: PAMS File: 2016-04-002
Kansas City Regional Office