

STATE OF MISSOURI



PERMIT BOOK

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: 062014-001 Project Number: 2014-04-032
Installation ID: 217-0030

Parent Company: McInroy Contractors LLC

Parent Company Address: 13910 East 54 Highway, Nevada, MO 64772

Installation Name: Vernon County Ready Mix

Installation Address: 1291 East Highland Ave., Nevada, MO 64772

Location Information: Vernon County, S34 T36N R31W

Application for Authority to Construct was made for: Ready Mix Concrete 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.

[x] Standard Conditions (on reverse) and Special Conditions are applicable to this permit.

JUN 03 2014

EFFECTIVE DATE

[Signature]
DIRECTOR OR DESIGNEE
DEPARTMENT OF NATURAL RESOURCES

## STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Air Pollution Control Program if construction or modification is not started within two years after the effective date of this permit, or if construction or modification is suspended for one year or more.

You will be in violation of 10 CSR 10-6.060 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review. In the event that there is a discrepancy between the permit application and this permit, the conditions of this permit shall take precedence. Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the Department's Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant source(s). The information must be made available within 30 days of actual startup. Also, you must notify the Department of Natural Resources Regional office responsible for the area within which you are located within 15 days after the actual start up of this (these) air contaminant source(s).

A copy of this permit and permit review shall be kept at the installation address and shall be made available to Department of Natural Resources' personnel upon request.

You may appeal this permit or any of the listed special conditions to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.075.6 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

If you choose not to appeal, this certificate, the project review and your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant 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 at (573) 751-4817. If you prefer to write, please address your correspondence to the Missouri Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, attention: Construction Permit Unit.

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**SITE SPECIFIC 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. **Best Management Practices Requirement**  
Vernon County Ready Mix shall control fugitive emissions from all of the haul roads and vehicular activity areas at this site by performing BMPs as defined in Attachment AA.
2. **Ambient Air Impact Limitation**
  - A. Vernon County Ready Mix shall not cause an exceedance of the NAAQS for PM<sub>10</sub> of 150.0 µg/m<sup>3</sup> 24-hour average in ambient air.
  - B. Vernon County Ready Mix shall demonstrate compliance with Special Condition 2.A using Attachment A or other equivalent forms that have been approved by the Air Pollution Control Program, including electronic forms. Vernon County Ready Mix shall account for the impacts from other sources of PM<sub>10</sub> as instructed in the attachments.
3. **Annual Emission Limit**
  - A. Vernon County Ready Mix shall emit less than 15.0 tons of PM<sub>10</sub> in any 12-month period from the entire installation.
  - B. Vernon County Ready Mix shall demonstrate compliance with Special Condition 3.A using Attachment B or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.
4. **Control Device Requirement-Baghouse**
  - A. Vernon County Ready Mix shall control emissions from the equipment listed below using baghouses as specified in the permit application.
    - 1) Cement Silo
    - 2) Supplement Silo
    - 3) Weigh Hopper
    - 4) Truck Mix Loadout (shroud vented to baghouse)
  - B. The baghouses 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.

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**SITE SPECIFIC SPECIAL CONDITIONS:**

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- C. Replacement filters for the baghouses 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. Vernon County Ready Mix shall monitor and record the operating pressure drop across the baghouses at least once every 24 hours while the plant is operating. The operating pressure drop shall be maintained within the design conditions specified by the manufacturer's performance warranty.
- E. Vernon County Ready Mix shall maintain a copy of the baghouse manufacturer's performance warranty on site.
- F. Vernon County Ready Mix shall maintain an operating and maintenance log for the baghouses 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.
- 5. Minimum Distance to Property Boundary Requirement  
The primary emission point, EP-16 (Truck Loading) shall be located at least 375 feet from the nearest property boundary.
- 6. Concurrent Operation Restriction  
Vernon County Ready Mix is prohibited from operating whenever other plants are located at the site.
- 7. Shut Down of Existing Equipment at Installation
  - A. Vernon County Ready Mix shall render the following emission units inoperable: EP-02 Aggregate Weigh Hopper, EP-04 Cement Weigh Hopper, and EP-05 Conveyor to load Trucks before the date the new equipment being added under this permit begins operations. The equipment listed above may not be operated after the startup of the new equipment without first obtaining a New Source Review permit or receiving approval for the like kind replacement of other existing equipment at the installation from the Air Pollution Control Program.
  - B. Vernon County Ready Mix shall notify the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than 15 days after the following events occur:
    - 1) The date of initial start-up of the new equipment added under this permit, and

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**SITE SPECIFIC SPECIAL CONDITIONS:**

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

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- 2) The date the existing equipment (as indicated in Special Condition Number 7.A) was rendered inoperable.
  
8. Record Keeping Requirement  
Vernon County Ready Mix shall maintain all records required by this permit for not less than five years and make them available to any Missouri Department of Natural Resources personnel upon request.
  
9. Reporting Requirement  
Vernon County Ready Mix shall report to the Air Pollution Control Program Enforcement Section P.O. Box 176, Jefferson City, MO 65102, no later than 10 days after any exceedances of the limitations imposed by this permit.

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

Project Number: 2014-04-032  
Installation ID Number: 217-0030  
Permit Number:

Vernon County Ready Mix  
1291 East Highland Ave.  
Nevada, MO 64772

Complete: April 23, 2014

Parent Company:  
McInroy Contractors LLC  
13910 East 54 Highway  
Nevada, MO 64772

Vernon County, S34 T36N R31W

INSTALLATION DESCRIPTION

Vernon County Ready Mix (formerly Kutina Farms Concrete) was purchased in 2008 and currently owned by McInroy Contractors, LLC. The existing concrete plant (formerly PORT-0374) was permanently located to this site at 1291 East Highland Ave., Nevada, Missouri in accordance with Construction Permit # 082001-023. The MHDR of this plant is 40 tons per hour. The existing concrete plant at this installation will be dismantled and deemed inoperable once the new plant is constructed.

PROJECT DESCRIPTION

Vernon County Ready Mix plans to replace the current equipment by purchasing a 400 tons per hour (200 cubic yards per hour) ready mix concrete plant. The brand and model has not been determined at the time of this permit. The cement silo, supplement silo, auxiliary silo and truck loading are controlled by a baghouse. This plant will be powered off the grid, therefore there are no engine/generator emissions. This plant will include a propane fired hot water heater rated at 0.8 MMBtu/hr. Vernon County Ready Mix will not be operating with other plants at this site.

For EIQ clarification, the existing emission points (EP) will be eliminated when the existing concrete is dismantled. The equipment list of the new plant is as follows with the updated emission points:

Table 1: Equipment List

| Emission Unit | Description                      |
|---------------|----------------------------------|
| EP-11         | Aggregate transfer               |
| EP-12         | Sand Transfer                    |
| EP-13         | Cement unloading to silo         |
| EP-14         | Supplement unloading (pneumatic) |
| EP-15         | Weigh Hopper                     |
| EP-16         | Truck Loading                    |
| EP-18         | Water Heater                     |
| EP-19a        | Storage Piles-Load in            |
| EP-19b        | Storage Piles-Load out           |
| EP-19c        | Storage Piles-Vehicular activity |
| EP-19d        | Storage Piles-Wind erosion       |
| EP-20         | Haul Roads                       |

The haul road length will be 0.06 miles and the storage pile will be 0.036 acres. 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 Vernon County, an attainment area for all criteria pollutants.

No operating permit is required because all emissions are conditioned below de minimis and no NSPS or other federal requirements are applicable.

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

## TABLES

The following permits have been issued to Vernon County Ready Mix from the Air Pollution Control Program.

Table 2: Permit History

| Permit Number | Description                                  |
|---------------|--|
| 1298-005      | Concrete Batch Plant new portable            |
| 082001-023    | PORT-374 made stationary and add two hoppers |

The following Table 3 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 existing actual emissions were taken from the 2002 EIQ; that was when the last full EIQ was submitted and consequently has qualified for a reduced reporting EIQ for the past years. 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> Existing Potential Emissions | Existing Actual Emissions (2002 EIQ) | <sup>b</sup> Potential Emissions of the Application | Conditioned Potential Emissions |
|-------------------------|-----------------------|---|--------------------------------------|---|---------------------------------|
| PM                      | 25.0                  | N/D                                       | N/A                                  | 92.20   | 36.28                           |
| PM <sub>10</sub>        | 15.0                  | 1.96                                      | 0.3865                               | 38.01   | <15.0                           |
| PM <sub>2.5</sub>       | 10.0                  | N/D                                       | 0.0                                  | 11.15   | 4.40                            |
| SO <sub>x</sub>         | 40.0                  | N/D                                       | 0.0                                  | 0.00  | 0.00                            |
| NO <sub>x</sub>         | 40.0                  | N/D                                       | 0.0                                  | 0.21  | 0.08                            |
| VOC                     | 40.0                  | N/D                                       | 0.0                                  | 0.01  | 0.005                           |
| CO                      | 100.0                 | N/D                                       | 0.0                                  | 0.18  | 0.07                            |
| GHG (CO <sub>2</sub> e) | 75,000 / 100,000      | N/D                                       | N/D                                  | 271.85  | 107.28                          |
| GHG (mass)              | 0.0 / 100.0 / 250.0   | N/D                                       | N/D                                  | 257.70  | 101.70                          |
| Total HAPs              | 25.0                  | N/D                                       | 0.0                                  | 0.0   | 0.0                             |

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

<sup>a</sup> The existing potential emissions were taken from Permit #082001-023. These emissions are from the concrete plant that will be dismantled, therefore the new potential emissions of this facility will be the conditioned PTE of this project.

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

Table 4 summarizes the ambient air quality impact analysis. The maximum modeled impact is the impact of each pollutant when the plant is operating continuously. The 24-hour limited impacts and daily limit are based on compliance with the NAAQS for PM<sub>10</sub>.

Table 4: Ambient Air Quality Impact Analysis

| Pollutant                                | NAAQS/RAL (µg/m <sup>3</sup> ) | Averaging Time | <sup>a</sup> Maximum Modeled Impact (µg/m <sup>3</sup> ) | Limited Impact (µg/m <sup>3</sup> ) | Background (µg/m <sup>3</sup> ) | <sup>b</sup> Daily Limit (tons/day) |
|--|--------------------------------|----------------|--|-------------------------------------|---------------------------------|-------------------------------------|
| <sup>c</sup> PM <sub>10</sub> (solitary) | 150.0                          | 24-hour        | 402.17   | 130.0                               | 20.0                            | 4,453.1                             |

<sup>a</sup> Modeled impact at maximum capacity with controls

<sup>b</sup> Indirect limit based on compliance with NAAQS.

<sup>c</sup> Solitary operation

## EMISSIONS CALCULATIONS

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

Emissions from the concrete batch plant were 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 baghouses, so the controlled emission factors were used. Emissions from the aggregate weigh hopper were calculated using AP-42 Section 13.2.4, Equation (1). These emissions are controlled by a baghouse so a 99% control factor was applied to the calculation. Emissions from mixer loading/mix truck loading are controlled by a shroud vented to a baghouse, so the controlled emission factor was used.

Emissions from haul roads and vehicular activity areas were calculated using the predictive equation from AP-42 Section 13.2.2 "Unpaved Roads," November 2006. A 90% control efficiency for PM and PM<sub>10</sub> and a 40% control efficiency for PM<sub>2.5</sub> were applied to the emission calculations for the use of BMPs. Emissions from load-in and load-out of storage piles were calculated using the predictive equation from AP-42 Section 13.2.4. The moisture content of the aggregate is 0.7% by weight. Emissions from wind erosion of storage piles were calculated using an equation found in the Air Pollution Control Program's Emissions Inventory Questionnaire Form 2.8 "Storage Pile Worksheet."

### AMBIENT AIR QUALITY IMPACT ANALYSIS

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

This plant uses BMPs to control emissions from haul roads and vehicular activity areas, so emissions from these sources were not included in the AAQIA. Instead they were addressed as a background concentration of 20 µg/m<sup>3</sup> of PM<sub>10</sub> in accordance with the Air Pollution Control Program's BMPs interim policy.

### OPERATING SENARIOS

The plant is not permitted to operate with other plants located at the site as stated in Site-Specific Special Condition 6.

### 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 . Potential emissions of PM are above de minimis but below major source levels.

## APPLICABLE REQUIREMENTS

Vernon County Ready Mix 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.
- *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
- No Operating Permit is required because emissions are conditioned below de minimis.

### SPECIFIC REQUIREMENTS

- None of the New Source Performance Standards (NSPS) apply to the installation.
- None of the National Emission Standards for Hazardous Air Pollutants (NESHAPS) or National Emission Standards for Hazardous Air Pollutants for Source Categories (MACTS) apply to the proposed equipment.

## STAFF RECOMMENDATION

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

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Kathy Kolb  
New Source Review Unit

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Date

## PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated April 11, 2014, received April 17, 2014, designating McInroy Contractors LLC as the owner and operator of the installation.
- U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition.





## 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>EQ</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>SIC</b> .....              | Standard Industrial Classification                               |
| <b>EU</b> .....               | Emission Unit                          | <b>SIP</b> .....              | State Implementation Plan  |
| <b>fps</b> .....              | feet per second                        | <b>SMAL</b> .....             | Screening Model Action Levels                                    |
| <b>ft</b> .....               | feet                                   | <b>SO<sub>x</sub></b> .....   | sulfur oxides  |
| <b>GACT</b> .....             | Generally Available Control Technology | <b>SO<sub>2</sub></b> .....   | sulfur dioxide   |
| <b>GHG</b> .....              | Greenhouse Gas                         | <b>tph</b> .....              | tons per hour  |
| <b>gpm</b> .....              | gallons per minute                     | <b>tpy</b> .....              | tons per year  |
| <b>gr</b> .....               | grains                                 | <b>VMT</b> .....              | vehicle miles traveled   |
| <b>GWP</b> .....              | Global Warming Potential               | <b>VOC</b> .....              | Volatile Organic Compound  |
| <b>HAP</b> .....              | Hazardous Air Pollutant                |                               |  |
| <b>hr</b> .....               | hour                                   |                               |  |
| <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             |                               |  |

Mr. Aaron McInroy  
Partner  
Vernon County Ready Mix  
1291 East Highland Ave.  
Nevada, MO 64772

RE: New Source Review Permit - Project Number: 2014-04-032

Dear Mr. McInroy:

Enclosed with this letter is your permit to construct. Please study it carefully. 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 and with your new source review permit application is necessary for continued compliance. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

If you 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:kk1

Enclosures

c: Southwest Regional Office  
PAMS File: 2014-04-032

Permit Number:

Celebrating 40 years of taking care of Missouri's natural resources.  
To learn more about the Missouri Department of Natural Resources visit [dnr.mo.gov](http://dnr.mo.gov).