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: 122012-008
Project Number: 2012-09-057
Installation ID: 201-0014

Parent Company: Delta Companies, Inc.
Parent Company Address: P.O. Box 880, Cape Girardeau, MO 63702
Installation Name: Delta Concrete, Inc. - Sikeston Plant
Installation Address: 220 South Ingram St., Sikeston, MO 63801
Location Information: Scott County, S20, T26N, R14E

Application for Authority to Construct was made for:
Replacement of a 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.

☑ Standard Conditions (on reverse) and Special Conditions are applicable to this permit.

DEC 17 2012
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 sources(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 sources(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.
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.”

1. Best Management Practices Requirement
   Delta Concrete, Inc. - Sikeston Plant shall control fugitive emissions from all of the haul roads and vehicular activity areas at this site by performing Best Management Practices as defined in Attachment AA.

2. Ambient Air Impact Limitation
   A. Delta Concrete, Inc. - Sikeston Plant shall not cause an exceedance of the National Ambient Air Quality Standard (NAAQS) for particulate matter less than ten microns in aerodynamic diameter (PM$_{10}$) of 150.0 µg/m$^3$ 24-hour average in ambient air.
   B. Delta Concrete, Inc. - Sikeston Plant 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.

3. Moisture Content Testing Requirement
   A. Delta Concrete, Inc. - Sikeston Plant 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 Delta Concrete, Inc. - Sikeston Plant 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
SITE SPECIFIC SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

noncompliant test. If the results of that test also exceed the limit, Delta Concrete, Inc. - Sikeston Plant 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 Air Pollution Control Program Compliance/Enforcement section within 10 days of the second noncompliant test. The wet spray devices shall be installed and operational within 40 days of the second noncompliant test.

G. In lieu of testing, Delta Concrete, Inc. - Sikeston Plant may obtain test results that demonstrate compliance with the moisture content in Special Condition 3.A from the supplier of the aggregate.

4. Control Device Requirement-Baghouse
A. Delta Concrete, Inc. - Sikeston Plant shall control emissions from the equipment listed below using baghouses as specified in the permit application.
   1) Cement Silo
   2) Supplement Silo
   3) 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 the Department of Natural Resources employees may easily observe them.

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. Delta Concrete, Inc. - Sikeston Plant shall monitor and record the operating pressure drop across the baghouses at least once every 24 hours. The operating pressure drop shall be maintained within the design conditions specified by the manufacturer's performance warranty.

E. Delta Concrete, Inc. - Sikeston Plant 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.
SITE SPECIFIC SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

5. Minimum Distance to Property Boundary Requirement
   The primary emission point (EP-05 Weigh Hopper) shall be located at least 250 feet
   from the nearest property boundary.

6. Concurrent Operation Restriction
   Delta Concrete, Inc. - Sikeston Plant is prohibited from operating whenever other plants
   are located at the site.

7. Shut Down of Existing Equipment at Installation
   A. Delta Concrete, Inc. - Sikeston Plant shall render the following emission units
      inoperable: Sand and Aggregate Transfer, Weigh Hopper Loading and Mixer
      Loading (EP 2, EP 4 and EP 5) 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. Delta Concrete, Inc. - Sikeston Plant 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
      2) The date the existing equipment (as indicated in Special Condition
         Number 8.A) was rendered inoperable.

8. Record Keeping Requirement
   Delta Concrete, Inc. - Sikeston Plant 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
   Delta Concrete, Inc. - Sikeston Plant shall report to the Air Pollution Control Program
   Compliance/Enforcement Section P.O. Box 176, Jefferson City, MO 65102, no later
   than ten days after any exceedances of the limitations imposed by this permit.
Delta Concrete, Inc. – Sikeston Plant Complete: September 19, 2012
220 South Ingram St.
Sikeston, MO 63801

Parent Company:
Delta Companies, Inc.
P.O. Box 880
Cape Girardeau, MO 63702

Scott County, S20, T26N, R14E

PROJECT DESCRIPTION

Delta Concrete, Inc. – Sikeston Plant is moving their Ross Bandit ready mix concrete plant from Marston, Missouri (Permit 0998-027). The existing concrete plant at Sikeston will be dismantled and deemed inoperable once the new plant is constructed. The new plant is rated at 150 cubic yards/hour (300 tons/hour). It was manufactured in 1998 and the serial number is S/N BT204. The cement silo, supplement silo, auxiliary silo and truck loading are controlled by a baghouse. This plant is powered off of the grid, therefore there are no engine/generator emissions. This plant includes a natural gas-fired Natco Model CM0400 hot water heater, S/N 21395, and is rated at 4.2 MMBtu/hr.

Delta Concrete, Inc. – Sikeston Plant will not be operating with other plants at this site.

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 Scott County, an attainment area for all criteria pollutants.

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.
The table below summarizes the emissions of this project. The potential emissions of the application represent the emissions of all equipment and activities assuming continuous operation (8760 hours per year).

### Table 1: Emissions Summary (tons per year)

<table>
<thead>
<tr>
<th>Air Pollutant</th>
<th>De Minimis Level/SMAL</th>
<th>aExisting Potential Emission</th>
<th>bExisting Actual Emissions (2011 EIQ)</th>
<th>c Potential Emissions of the Application</th>
<th>Conditioned Potential Emissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>25.0</td>
<td>N/D</td>
<td>N/D</td>
<td>82.99</td>
<td>38.61</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>15.0</td>
<td>N/D</td>
<td>4.75</td>
<td>27.85</td>
<td>12.96</td>
</tr>
<tr>
<td>PM$_{2.5}$</td>
<td>10.0</td>
<td>N/D</td>
<td>N/D</td>
<td>12.89</td>
<td>6.00</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>15.0</td>
<td>N/D</td>
<td>N/D</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>SO$_{X}$</td>
<td>40.0</td>
<td>N/D</td>
<td>N/D</td>
<td>1.80</td>
<td>0.84</td>
</tr>
<tr>
<td>NO$_{X}$</td>
<td>40.0</td>
<td>N/D</td>
<td>N/D</td>
<td>0.10</td>
<td>0.05</td>
</tr>
<tr>
<td>VOC</td>
<td>40.0</td>
<td>N/D</td>
<td>N/D</td>
<td>1.51</td>
<td>0.70</td>
</tr>
<tr>
<td>CO</td>
<td>100.0</td>
<td>N/D</td>
<td>N/D</td>
<td>0.03</td>
<td>0.02</td>
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<tr>
<td>Total HAPs</td>
<td>25.0</td>
<td>N/D</td>
<td>N/D</td>
<td>0.03</td>
<td>0.02</td>
</tr>
</tbody>
</table>

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

a There is no existing PTE for the existing plant that is being torn down.
b The 2011 EIQ emissions are for the old plant that is being dismantled.
c Includes site specific haul road and storage pile emissions.

Table 2 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$_{10}$, which will indirectly limit the annual limit of PM$_{10}$ to below the de minimis level.

### Table 2: Ambient Air Quality Impact Analysis

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>aNAAQS $(\mu g/m^3)$</th>
<th>Averaging Time</th>
<th>bMaximum Modeled Impact $(\mu g/m^3)$</th>
<th>Limited Impact $(\mu g/m^3)$</th>
<th>Background $(\mu g/m^3)$</th>
<th>cDaily Limit (tons/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>aPM$_{10}$</td>
<td>150.0</td>
<td>24-hour</td>
<td>385.69</td>
<td>130.0</td>
<td>20.0</td>
<td>3,349.9</td>
</tr>
</tbody>
</table>

a National Ambient Air Quality Standards (NAAQS)
b Modeled impact at maximum capacity with controls.
c Indirect limit based on compliance with NAAQS.
d Solitary operation
EMISSIONS CALCULATIONS

Emissions for the project were calculated using emission factors found in the United States Environmental Protection Agency (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). Emissions from mixer loading/mix truck loading are controlled by a shroud vented to a baghouse/uncontrolled, 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$_{10}$ and a 40% control efficiency for PM$_{2.5}$ are 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 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.”

AMBIENT AIR QUALITY IMPACT ANALYSIS

An ambient air quality impact analysis (AAQIA) was performed to determine the impact of the pollutants listed in Table 2. The Air Pollution Control Program requires an AAQIA of PM$_{10}$ for all asphalt, concrete and rock-crushing plants regardless of the level of PM$_{10}$ 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 National Ambient Air Quality Standard (NAAQS) or Risk Assessment Level (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$^3$ of PM$_{10}$ in accordance with the Air Pollution Control Program’s BMPs interim policy.
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$_{10}$ are indirectly conditioned below the de minimis level. Potential emissions of PM are above the de minimis level, but below major source levels.

APPLICABLE REQUIREMENTS

Delta Concrete, Inc. - Sikeston Plant 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 Basic Operating Permit application is required for this installation because all pollutants are conditioned below the deminimis levels and PM emissions do not affect the applicability of operating permits.

- 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 1.38 pounds per hour of PM complies with this regulation.

- 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) applies 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.

________________________________   ______________________________
Kathy Kolb                   Date
New Source Review Unit

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated September 14, 2012, received September 19, 2012, designating Delta Companies, Inc. as the owner and operator of the installation.

## Attachment A: Ambient Impact Tracking Sheet

### For Solitary Operations

**Delta Concrete, Inc. - Sikeston Plant 201-0014**  
Project Number: 2012-09-057

This sheet covers the period from ______________ to ______________ (Copy as needed)

(Month, Day Year)  (Month, Day Year)

<table>
<thead>
<tr>
<th>Date</th>
<th>Daily Production (tons)</th>
<th>Impact Factor (µg/m³ ton)</th>
<th>Impact¹ (µg/m³)</th>
<th>Impact (µg/m³)</th>
<th>Impact (µg/m³)</th>
<th>Impact (µg/m³)</th>
<th>Background (µg/m³)</th>
<th>Total Impact² (µg/m³)</th>
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<td>N/A</td>
<td>20.0</td>
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</tbody>
</table>

¹Calculate the impact for 201-0014 by multiplying the daily production by the impact factor.
²Calculate the total impact by adding the applicable impacts and background. A total of 150 µg/m³ or less is necessary for compliance.
Haul roads and vehicular activity areas shall be maintained in accordance with at least one of the following options when the portable 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\(^1\) 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 rational 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.

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\(^1\)For purposes of this document, Control of Fugitive Emissions means to control particulate matter that is not collected by a capture system and visible emissions to the extent necessary to prevent violations of the air pollution law or regulation. (Note: control of visible emission is not the only factor to consider in protection of ambient air quality.)
Mr. Jerry Neels  
Environmental Manager  
Delta Concrete, Inc. - Sikeston Plant  
P.O. Box 880  
Cape Girardeau, MO 63702  

RE: New Source Review Permit - Project Number: 2012-09-057  

Dear Mr. Neels:  

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, your new source review permit application and with your amended operating permit 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 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:kkl  

Enclosures  

c: Southeast Regional Office  
PAMS File: 2012-09-057  

Permit Number: