



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

PIEDMONT REGIONAL OFFICE

4949-A Cox Road, Glen Allen, Virginia 23060

(804) 527-5020 Fax (804) 527-5106

[www.deq.virginia.gov](http://www.deq.virginia.gov)

Preston Bryant  
Secretary of Natural Resources

David K. Paylor  
Director

February 26, 2009

Mr. Randy Helwig  
Company Secretary  
Colonial Concrete  
301 Warrenton Road  
Falmouth, Virginia 22405

Location: Charles City County  
Registration No.: 52005  
County-Plant ID No.: 036-0020

Dear Mr. Helwig:

Attached is an administrative amendment to your new source review permit dated April 21, 2006 to construct and operate a concrete batch plant in accordance with the provisions of the Virginia Regulations for the Control and Abatement of Air Pollution. This amended permit supersedes your permit dated April 21, 2006. This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and/or civil charges. Please read all permit conditions carefully.

The Department of Environmental Quality (DEQ) deemed the application complete on February 11, 2009 and has determined that the application meets the requirements of 9 VAC 5-80-1270 A for an administrative amendment to a new source review permit.

In the course of evaluating the application and arriving at a final decision to approve the project, the Department of Environmental Quality (DEQ) deemed the application complete on February 11, 2009.

This permit approval to construct and operate shall not relieve Colonial Concrete of the responsibility to comply with all other local, state, and federal permit regulations.

The Board's Regulations as contained in Title 9 of the Virginia Administrative Code 5-170-200 provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this case decision notice was mailed or delivered to

you. 9 VAC 5-170-200 provides that you may request direct consideration of the decision by the Board if the Director of the DEQ made the decision. Please consult the relevant regulations for additional requirements for such requests.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal of this decision by filing a Notice of Appeal with:

David K. Paylor, Director  
Department of Environmental Quality  
P. O. Box 1105  
Richmond, VA 23218

If this permit was delivered to you by mail, three days are added to the thirty-day period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for information on the required content of the Notice of Appeal and for additional requirements governing appeals from decisions of administrative agencies.

If you have any questions concerning this permit, please contact Mark McDonald at (804) 527-5173.

Sincerely,



James E. Kyle, P.E.  
Air Permit Manager

JEK/mwm/NSR\_Permit\_Cover\_Letter.doc

Attachment: Permit

cc: Director, OAPP (electronic file submission)  
Manager, Data Analysis (electronic file submission)  
Manager/Inspector, Air Compliance



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Secretary of Natural Resources

David K. Paylor  
Director

## STATIONARY SOURCE PERMIT TO MODIFY AND OPERATE

This permit supersedes your permit dated April 21, 2006.

In compliance with the Federal Clean Air Act and the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution,

Colonial Concrete  
301 Warrenton Road  
Falmouth, Virginia 22405  
Registration No.: 52005

is authorized to modify and operate

a concrete batch plant  
(Charles City Plant)

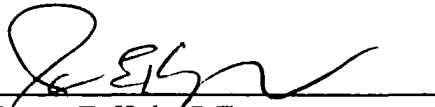
located at

2271 Roxbury Road  
Charles City, Virginia

in accordance with the Conditions of this permit.

Approved on

February 26, 2009

  
James E. Kyle, P.E.  
Air Permitting Manager

Permit consists of 9 pages.  
Permit Conditions 1 to 25.

**INTRODUCTION**

This permit approval is based on the permit application dated June 12, 2002 and January 31, 2006 including amendment information dated June 13, 2002, July 2, 2002, July 8, 2002, and January 9, 2009. Any changes in the permit application specifications or any existing facilities which alter the impact of the facility on air quality may require a permit. Failure to obtain such a permit prior to construction may result in enforcement action.

Words or terms used in this permit shall have meanings as provided in 9 VAC 5-10-10 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution. The regulatory reference or authority for each condition is listed in parentheses () after each condition.

Annual requirements to fulfill legal obligations to maintain current stationary source emissions data will necessitate a prompt response by the permittee to requests by the DEQ or the Board for information to include, as appropriate: process and production data; changes in control equipment; and operating schedules. Such requests for information from the DEQ will either be in writing or by personal contact.

The availability of information submitted to the DEQ or the Board will be governed by applicable provisions of the Freedom of Information Act, §§ 2.2-3700 through 2.2-3714 of the Code of Virginia, § 10.1-1314 (addressing information provided to the Board) of the Code of Virginia, and 9 VAC 5-170-60 of the State Air Pollution Control Board Regulations. Information provided to federal officials is subject to appropriate federal law and regulations governing confidentiality of such information.

**PROCESS REQUIREMENTS**

1. **Equipment List** - Equipment at this facility consists of the following:

<b>Equipment permitted prior to the date of this permit</b>				
<b>Reference No.</b>	<b>Equipment Description</b>	<b>Rated Capacity</b>	<b>Federal Requirements</b>	<b>Original Permit Date</b>
03 and 04	W.P. Hiltz & Company Sand & Aggregate Storage Bins	60 tons/hr	N/A	July 15, 2002
05	W.P. Hiltz & Company Cement Storage Silo	60 tons/ hr (Unloading to Silo)	N/A	July 15, 2002
06	W.P. Hiltz & Company Sand/Aggregate Weigh Batcher	60 tons/hr	N/A	July 15, 2002

<b>Equipment permitted prior to the date of this permit</b>				
<b>Reference No.</b>	<b>Equipment Description</b>	<b>Rated Capacity</b>	<b>Federal Requirements</b>	<b>Original Permit Date</b>
07	W.P. Hilts & Company Cement Weigh Batcher	15 tons/hr	N/A	July 15, 2002
08	W.P. Hilts & Company Sand & Aggregate Belt Conveyor 30" Width	60 tons/hr	N/A	July 15, 2002

Specifications included in the permit under this Condition are for informational purposes only and do not form enforceable terms or conditions of the permit.  
 (9 VAC 5-80-1180 D 3)

2. **Emission Controls** - Particulate emissions from the cement unloading to the W.P. Hilts & Company Cement Storage Silo shall be controlled by the WAM Corporation dust collector with a minimum control efficiency of 99%. The dust collector shall be provided with adequate access for inspection and shall be in operation when cement is unloaded to the storage silo.  
 (9 VAC 5-80-1180 and 9 VAC 5-50-260)
  
3. **Emission Controls** - Particulate emissions from the cement unloading to the W.P. Hilts & Company Cement Weigh Batcher shall be controlled by the Belgrade Steel Tank Company filter vent with a minimum control efficiency of 99%. The dust collector shall be provided with adequate access for inspection and shall be in operation when cement is unloaded to the weigh batcher.  
 (9 VAC 5-80-1180 and 9 VAC 5-50-260)
  
4. **Emission Controls** - Particulate emissions from the transit truck loading of cement shall be controlled by a water ring and dust shroud with a minimum control efficiency of 99%. The water ring and dust shroud shall be provided with adequate access for inspection and shall be in operation when cement is being loaded.  
 (9 VAC 5-80-1180 and 9 VAC 5-50-260)
  
5. **Emission Controls** - Particulate emissions from the transfer of aggregate to the W.P. Hilts & Company Aggregate/Sand Storage Bins shall be controlled by wet suppression or another equivalent method as approved by DEQ. The wet suppression or equivalent method shall be provided with adequate access for inspection and shall be in operation when aggregate is transferred to the storage bins.  
 (9 VAC 5-80-1180 and 9 VAC 5-50-260)

6. **Emission Controls** - Particulate emissions from the transfer of sand to the W.P. Hilts & Company Aggregate/Sand Elevated Storage Bins shall be controlled by natural moisture content.  
(9 VAC 5-80-1180 and 9 VAC 5-50-260)
7. **Monitoring Devices** - The WAM Corporation dust collector shall be equipped with a device to continuously measure the differential pressure drop across the collector. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the concrete batch plant is operating.  
(9 VAC 5-80-10 H, 9 VAC 5-50-20 C, and 9 VAC 5-50-260)
8. **Monitoring Device Observation** - The process/control monitoring device used to continuously measure the differential pressure drop across the dust collector shall be observed by the permittee with a frequency of not less than once per day. The permittee shall keep continuously record measurements from the process/control monitoring device.  
(9 VAC 5-50-50 H)
9. **Fugitive Dust and Fugitive Emission Controls** – Fugitive dust and Fugitive emission controls shall include the following, or equivalent, as approved by DEQ:
  - a. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; paving of roadways, and maintenance of roadways in a clean condition.
  - b. Open equipment for conveying or transporting materials likely to create objectionable air pollution when airborne shall be covered, or treated in an equally effective manner at all times when in motion.
  - c. Prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.
  - d. Dust from material handling, aggregate storage stockpiles, conveyors and load-outs, shall be controlled by wet suppression or equivalent. The wet suppression spray systems shall be operated at optimum design.
  - e. Reasonable precautions shall be taken to prevent deposition of dirt on public roads and subsequent dust emissions. Dirt, product, or raw material spilled or tracked onto paved surfaces shall be promptly removed to prevent particulate matter from becoming airborne.

(9 VAC 5-50-90 and 9 VAC 5- 80-1180 and 9 VAC 5-50-260)

**OPERATING LIMITATIONS**

10. **Production** - The production of concrete shall not exceed 100,000 tons per year (50,000 yd<sup>3</sup>) per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.  
(9 VAC 5-80-1180)

**EMISSION LIMITS**

11. **Process Emission Limits** - Emissions from the operation of the concrete plant shall not exceed the limits specified below:

Particulate Matter (PM)	6.5 lbs/hr	2.7 tons/yr
PM-10	3.1 lbs/hr	1.3 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition number(s) 10, 12, 13, 14, and 15.  
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

12. **Visible Emission Limit** - Visible emissions from the cement unloading to the W.P. Hilts & Company Cement Storage Silo shall not exceed 5 percent opacity as exhausted through the WAM Corporation dust collector. The opacity shall be determined by EPA Method 9 (reference 40 CFR 60, Appendix A).  
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

13. **Visible Emission Limit** - Visible emissions from the transfer of cement to the W.P. Hilts & Company Cement Weigh Batcher shall not exceed 5 percent opacity as exhausted through the Belgrade Steel Tank Company filter vent. The opacity shall be determined by EPA Method 9 (reference 40 CFR 60, Appendix A).  
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

14. **Visible Emission Limit** - Visible emissions from the transit truck loading area of cement shall not exceed 5 percent opacity as exhausted through the water ring and dust shroud. The opacity shall be determined by EPA Method 9 (reference 40 CFR 60, Appendix A).  
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

- 15. Visible Emission Limit** – Visible emissions from the transfer of aggregate and sand to the W.P. Hilts & Company Aggregate/Sand Storage Bins shall not exceed 10 percent opacity. The opacity shall be determined by EPA Method 9 (reference 40 CFR 60, Appendix A). (9 VAC 5-80-1180 and 9 VAC 5-50-260)

## **RECORDS**

- 16. On Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Piedmont Region. These records shall include, but are not limited to:
- a. Annual production of concrete in tons per year for the plant, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
  - b. Operation and control device monitoring records for the WAM Corporation dust collector as required in Condition 8.
  - c. All maintenance records.
  - d. Visible emission evaluations for the facility.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-1180 and 9 VAC 5-50-50)

## **NOTIFICATIONS**

- 17. Notification for Facility or Control Equipment Malfunction** - The permittee shall furnish notification to the Piedmont Regional Office of malfunctions of the affected facility or related air pollution control equipment that may cause excess emissions for more than one hour, by facsimile transmission, telephone or telegraph. Such notification shall be made as soon as practicable but not later than four daytime business hours of the malfunction. The permittee shall provide a written statement giving all pertinent facts, including the estimated duration of the breakdown, within 14 days of the occurrence. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the permittee shall notify the Piedmont Regional Office in writing. (9 VAC 5-20-180 C and 9 VAC 5-80-1180)



**18. Notification for Control Equipment Maintenance** - The permittee shall furnish notification to the Piedmont Regional Office of the intention to shut down or bypass, or both, air pollution control equipment for necessary scheduled maintenance, which results in excess emissions for more than one hour, at least 24 hours prior to the shutdown. The notification shall include, but is not limited to, the following information:

- a. Identification of the air pollution control equipment to be taken out of service, as well as its location, and registration number;
- b. The expected length of time that the air pollution control equipment will be out of service;
- c. The nature and quantity of emissions of air pollutants likely to occur during the shutdown period;
- d. Measures that will be taken to minimize the length of the shutdown or to negate the effect of the outage.

(9 VAC 5-20-180 B)

#### **GENERAL CONDITIONS**

**19. Permit Suspension/Revocation** - This permit may be suspended or revoked if the permittee:

- a. Knowingly makes material misstatements in the permit application or any amendments to it;
- b. Fails to comply with the conditions of this permit;
- c. Fails to comply with any emission standards applicable to a permitted an emissions unit, included in this permit;
- d. Causes emissions from the stationary source which result in violations of , or interfere with the attainment and maintenance of, any ambient air quality standard; or
- e. Fails to operate in conformance with any applicable control strategy, including any emission standards or emission limitations, in the State Implementation Plan in effect at the time an application for this permit is submitted.

(9 VAC 5-80-1210 F)

**20. Right of Entry** - The permittee shall allow authorized local, state, and federal representatives, upon the presentation of credentials:

- a. To enter upon the permittee's premises on which the facility is located or in which any records are required to be kept under the terms and conditions of this permit;
- b. To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit or the State Air Pollution Control Board Regulations;
- c. To inspect at reasonable times any facility, equipment, or process subject to the terms and conditions of this permit or the State Air Pollution Control Board Regulations; and
- d. To sample or test at reasonable times.
- e. For purposes of this condition, the time for inspection shall be deemed reasonable during regular business hours or whenever the facility is in operation. Nothing contained herein shall make an inspection time unreasonable during an emergency.

(9 VAC 5-170-130 and 9 VAC 5-80-1180)

**21. Maintenance/Operating Procedures** – At all times, including periods of start-up, shutdown and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.

- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
- b. Maintain an inventory of spare parts.
- c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
- d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures, prior to their first operation of such equipment. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.
- e. Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.

(9 VAC 5-50-20 E and 9 VAC 5-80-1180 D)

**22. Record of Malfunctions** – The permittee shall maintain records of the occurrence and duration of any bypass, malfunction, shutdown or failure of the facility or its associated air pollution control equipment that results in excess emissions for more than one hour. Records

shall include the date, time, duration, description (emission unit, pollutant affected, cause), corrective action, preventive measures taken and name of person generating the record.  
(9 VAC 5-20-180 J and 9 VAC 5-80-1180 D)

**23. Violation of Ambient Air Quality Standard** - The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.

(9 VAC 5-20-180 I and 9 VAC 5-80-1180)

**24. Change of Ownership** - In the case of a transfer of ownership of a stationary source, the new owner shall abide by any current permit issued to the previous owner. The new owner shall notify the Piedmont Region of the change of ownership within 30 days of the transfer.

(9 VAC 5-80-1240)

**25. Permit Copy** - The permittee shall keep a copy of this permit on the premises of the facility to which it applies.

(9 VAC 5-80-1180)