

M. S. L.

Georgia Department of Natural Resources

Environmental Protection Division, Air Protection Branch

4244 International Parkway, Suite 120, Atlanta, Georgia 30354

404/363-7000; Fax: 404/363-7100

Lonice C. Barrett, Commissioner

Harold F. Reheis, Director

MAR 24 1999

Todd Proctor
Environmental Manager
Vulcan Materials Company
P. O. Box 80730
Atlanta, Georgia 30360

RE: Correspondence Dated May 07, 1998
Bellwood Quarry &
Rockmart Quarry

Mr. Proctor:

Enclosed please find Georgia Air Quality Permit No. 1423-121-0063-S-01-0 for the Bellwood Quarry and Georgia Air Quality Permit No. 1423-233-0030-S-01-0 for the Rockmart Quarry. Air Quality Permit No. 1423-121-0063-S-01-0 for the Bellwood Quarry and Air Quality Permit No. 1423-233-0030-S-01-0 for the Rockmart Quarry are issued as a result of Vulcan Materials Company's acquisition of each of the C. W. Matthews quarries according to correspondence dated May 07, 1998. Please note the attached conditions are part of the permits.

Air Quality Permit Nos. 1423-121-0063-S-01-0 and 1423-233-0030-S-01-0 are issued with practically enforceable conditions which maintain each facility as a "synthetic minor" source for the purposes of Title V of the Clean Air Act.

Any future modifications that might effect potential emissions from your facility will require review and possible permitting through this office. If you have any questions or comments, you may contact me by phone at (404) 363-7129 or by my electronic E-mail address listed below.

Sincerely,



Stephan Neadow
Principal Environmental Engineer
Stationary Source Permitting Program
Minerals Unit

Enclosure

cc: Northwest Georgia Region

Air Protection Branch Contacts

For air quality correspondence not related to categories listed below, call 404/363-7000 for assistance

Stationary Source Permitting Program

Stephan Neadow (404) 363-7129

- Permit application forms for new construction or modification of an existing operation
- Any information pertaining to an ongoing Permit evaluation
- Title V Applicability and Permitting
- Synthetic Minor & Permit by Rule Permitting
- Questions concerning whether a Permit is required for your facility/equipment

Stationary Source Compliance Program

Lou Musgrove (404) 363-7122

- Correspondence concerning existing conditions of your Air Quality Permit(s)
- Notifications of Startup, Malfunction, Noncompliance, etc.
- Periodic Reports pertaining to Hours of Operation, Fuel Usage, Fuel Oil Sulfur Content Certifications, Coatings Usage, Solvent or Thinner Usage, Product Throughput, Production Rates, etc.
- Complaint Investigations
- Enforcement Actions pertaining to Notices of Violation, Consent Orders, Letters of Noncompliance, etc.

Neeraj Verma (404) 363-7134

- Questions about Title III - Toxic & MACT Regulations
- Permit Fees

Industrial Source Monitoring Program

Mike Fogle (404) 363-7141

- Excess Emission or Parameter Deviation Reports - Quarterly and Semiannual.
- Stationary Source Technical Reports of Fuel Analysis
- Stationary Source Performance/Compliance Test Plans and Test Date Notifications
- Stationary Source Test Reports
- Stationary Source Emissions Monitor Certifications

INTERNET ADDRESS

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State of Georgia
Department of Natural Resources
Environmental Protection Division
Air Protection Branch



AIR QUALITY PERMIT

Permit No.
1422-233-0030-S-01-0

Effective Date
MAR 24 1999

In accordance with the provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act,

Vulcan Materials Company
P. O. Box 80730
Atlanta, Georgia 30366

is issued a Permit for the following:

The construction and operation of a limestone quarry and stone processing facility including associated air pollution control equipment. Process and air pollution control equipment are listed in Attachment A. This Synthetic Minor Permit is issued for the purpose of establishing practically enforceable emission limitations such that the facility will not be considered a major source under Title V of The Clean Air Act.

Facility location:

Rockmart Quarry
Georgia Highway 101
(Polk County)

This Permit is conditioned upon compliance with all provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq, the Rules, Chapter 391-3-1, adopted or in effect under that Act, or any other condition of this Permit.

This Permit may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in the Applications Nos. 8548, 8259, 7985, and 7257, supporting data entered therein or attached thereto, or any subsequent submittals or supporting data; or for any alterations affecting the emissions from this source.

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 10 page(s), which page(s) are a part of this Permit.

Director
Environmental Protection Division

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Permit No. 1422-233-0030-S-01-0

1 of 10

1.0 General Requirements

- 1.1 At all times, including periods of startup, shutdown, and malfunction, the Permittee shall maintain and operate the facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on any information available to the Division which may include, but is not limited to, monitoring results, observations of the opacity or other characteristics of emissions, review of operating and maintenance procedures or records, and inspection or surveillance of the source.
- 1.2 The Permittee shall not build, erect, install or use any article, machine, equipment or process the use of which conceals an emission which would otherwise constitute a violation of an applicable emission standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged into the atmosphere.
- 1.3 At any time that the Division determines that additional control of emissions from the facility may reasonably be needed to provide for the continued protection of public health, safety and welfare, the Division reserves the right to amend the provisions of this Permit pursuant to the Division's authority as established in the Georgia Air Quality Act and the rules adopted pursuant to that Act.

2.0 Allowable Emissions

- 2.1 Except as may be provided in other more stringent provisions of this permit, the Permittee shall comply with the detailed provisions of 40 CFR Part 60 Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants" (NSPS OOO) for all affected equipment. (For equipment already subject to NSPS OOO see Attachment A)
 - a. The Permittee shall not discharge, or cause the discharge, into the atmosphere, from any crusher any fugitive emissions which exhibit greater than 15 Percent opacity.
 - b. The Permittee shall not discharge, or cause the discharge, into the atmosphere, from any grinding mill, screening operation, bucket elevator, belt conveyor transfer point, bagging operation, storage bin, enclosed truck or railcar loading station, or from any other affected facility any fugitive emissions which exhibit greater than 10 percent opacity.
 - c. The Permittee shall not discharge, or cause the discharge, into the atmosphere, fugitive emissions from equipment which is part of a wet process greater than zero percent opacity.

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Permit No. 1422-233-0030-S-01-0

2 of 10

- 2.2 The Permittee shall comply with the provisions of Georgia Air Quality Control Rule 391-3-1-.02(2)(n), "Fugitive Dust" for the entire quarry area and stone crushing plant unless specified otherwise in this permit. The Permittee shall not discharge, or cause the discharge, into the atmosphere, from any operation, process, handling, transport or storage facility any fugitive emissions which exhibit 20 Percent opacity or greater.

3.0 Process and Control Equipment

- 3.1 The Permittee shall maintain an inventory of spray nozzles sufficient to accommodate replacement of any defective nozzles within the affected facility.
- 3.2 Routine maintenance shall be performed on all air pollution control equipment. Maintenance records shall be recorded in a permanent form suitable and available for inspection by the Division. This shall include water trucks and all plant water spray control devices. The records shall be retained for a least five years following the date of such maintenance.
- 3.3 Except during natural wet conditions, the Permittee shall have, maintain and use the water-spray controls at all times the facility is operating and shall insure there is sufficient water and water pressure to properly supply the dust control devices.

4.0 Performance Testing

- 4.1 The Permittee shall conduct or cause to be conducted appropriate compliance testing when so directed by the Division. Compliance tests may include sampling and chemical analysis of materials emitted. All results shall be submitted to the Division within 30 days of the completion of testing unless another period has been agreed upon by the Division. Tests shall be performed and conducted using methods and procedures which have been previously approved by the Division.
- 4.2 Should production rate increase above the rates at which the acceptable performance tests were made, the Division may require that process emissions or the opacity of fugitive emissions be tested for compliance at the higher production rate.
- 4.3 Performance tests shall be conducted and the data reduced in accordance with methods and procedures approved by the Division prior to such testing.
- 4.4 The Permittee shall provide the Division thirty (30) days prior written notice of the date of any performance test(s) to afford the Division the opportunity to witness and/or audit the test, and shall provide with the notification a test plan in accordance with Division guidelines.

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Permit No. 1422-233-0030-S-01-0

3 of 10

- 4.5 Within 60 days after achieving the maximum production rate the source will be operated, but no later than 180 days after the initial startup, the Permittee shall conduct required NSPS emissions performance test on each NSPS emission point. Attachment A identifies existing emission points known to be subject to NSPS; It is then the responsibility of the facility to keep the equipment list in Attachment A up to date. The results of these tests shall be submitted to the Division within 30 days of the completion of testing.

5.0 Monitoring Requirements

- 5.1 Any monitoring system installed by the Permittee shall be in continuous operation except during periods of repair. Maintenance or repair shall be conducted in the most expedient manner to minimize the period during which the system is out of service.
- 5.2 The Permittee shall perform the following daily operation and maintenance checks on each dust suppression device listed in Attachment A, or its updated version. The inspection shall be conducted prior to the commencement of daily operation and a minimum of once per consecutive 12 hour operating period. If a device is found to be operating improperly, or in a manner inconsistent with the following criteria, a description of the corrective actions taken shall be recorded. A daily record of the conditions found and any corrective actions taken shall be retained for at least five years following the date of such record (a checklist or other similar log may be used for this purpose). The records shall be recorded in a permanent form which is suitable and available for inspection by the Division.
- a. Visually inspect water sprays to insure that the designed nozzle water spray pattern is produced (i.e. - a fine, conical mist).
 - b. Check water sprays to insure that they are directed toward the stone material.
 - c. Check nozzles to insure none are clogged, and that proper and adequate water flow sufficient to wet the stone occurs.
 - d. Check nozzles and pumps to insure that there is sufficient pressure and flow to each nozzle to wet stone.

6.0 Ambient Monitoring

- 6.1 Upon request by the Division, the Permittee shall design an approved ambient air monitoring program for particulate matter, to be carried out by qualified personnel. A plan detailing an adequate ambient monitoring program shall be submitted within 90 days following the request made by the Division. The ambient monitoring system shall generate acceptable data, and should pass a quality assurance check as described in "The Minimum Contents of a Monitoring Plan". The plan submitted shall include the following:

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Permit No. 1422-233-0030-S-01-0

4 of 10

- a. All data required by the document named "The Minimum Contents of a Monitoring Plan" used by the Ambient Monitoring Unit of the Air Branch of the Division.
 - b. Three proposed monitor locations. The following shall be taken into consideration: computer modeling results, primary and secondary wind directions and locations of nearby residences. Access to electrical power may be taken into consideration, in consultation with the Division. The final decision on the number of monitors and locations shall be made by the Division.
- 6.2 After the conclusion of the initial particulate matter ambient monitoring program as required above, the Division retains the right to request additional ambient monitoring. If requested in writing from the Division, the Permittee shall design and conduct any additional approved ambient air monitoring for particulate matter to be carried out by qualified personnel. A plan detailing additional ambient monitoring shall be submitted to the Division for approval within 60 days of such written request.

7.0 Fugitive Emissions

- 7.1 The Permittee shall take all reasonable precautions with any operation, process, handling, transportation, or storage facilities to prevent fugitive emissions of air contaminants.
- 7.2 Reasonable precautions shall be taken to minimize fugitive dust generated by blasting.
- 7.3 The Permittee shall maintain and use at all times that drilling equipment is in use, appropriate dust control systems to reduce fugitive dust emissions
- 7.4 Drilling dust control systems shall be in full operation at all times that drilling is being done, except during natural wet conditions.
- 7.5 The Permittee shall take whatever means necessary to prevent buildup of dust, dirt, sand or other stone debris on the public road near the entrance to the Plant property.
- 7.6 The Permittee shall make all reasonable efforts to replant disturbed areas as soon as possible after such disturbance.
- 7.7 The Permittee shall have, maintain and use at all times that truck travel is occurring on site, a water truck equipped to effectively spray the roads which are being used, including roads used for in-plant travel, customer travel or construction travel, except during natural wet conditions, and this truck shall be equipped with a working water cannon.

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Permit No. 1422-233-0030-S-01-0

5 of 10

8.0 Notification, Reporting and Record Keeping

- 8.1 The Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment or any periods during which a continuous monitoring system or monitoring device is inoperative. Said records shall be retained by the Permittee for at least five years after the date of any such startup, shutdown, malfunction, or measurements.
- 8.2 The Permittee shall maintain daily records of the hours of operation and the tons of crushed stone produced in order to verify compliance with requirements under special conditions. The records shall be summarized monthly. Said records shall be retained by the Permittee for at least five years after the date of the last entry.
- 8.3 In the event of any malfunction or breakdown of process or emission control equipment for a period of four hours or more which results in increased emissions, the owner or operator shall submit a written report which would describe the cause of the breakdown, the corrective actions taken, and the plans to prevent future occurrences. This report must be submitted by means that would insure the Division's receipt of the report by no later than seven days after the occurrence. The information submitted shall be adequate to allow the Division to determine if the increased emissions were due to a sudden and unavoidable breakdown. Such a report shall in no way serve to excuse, otherwise justify or in any manner affect any potential liability or enforcement action.
- 8.4 The Permittee shall submit written reports as prescribed by the Division for each semiannual period ending June 30 and December 31 each year [or other designated period]. All reports shall be postmarked by the 30 day following the end of each reporting period, July 30 and January 30 respectively. The report shall contain a summary of any required record keeping including all deviations recorded during the reporting period. For the purpose of this Permit, "deviation" shall mean:
- a. Any periods exceeding four hours during which any of the specified control devices malfunction or breakdown which results in an increase of emissions.
 - b. Any period during which the requirements specified in NSPS are not met.
 - c. Any period exceeding four hours for which the water truck is non-operational or calculated water application rate is not being maintained, and truck travel is occurring on site .

The report shall also include the date and time frame of all deviations during each quarter with an explanation of the nature and cause of each reported deviation and corrective action taken. In the event that there have not been any deviations or malfunctions during a reporting period, the report should state same.

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Permit No. 1422-233-0030-S-01-0

6 of 10

9.0 Modifications

- 9.1 The Permittee shall give written notification to the Division when there is any modification to this source. This notice shall be submitted sufficiently in advance of any critical date involved to allow sufficient time for review, discussion, and revision of plans, if necessary. Such notice shall include, but not be limited to: information describing the precise nature of the change; modifications to any emission control system; production capacity of the plant before and after the change; schedule for any required testing, an updated Attachment A; and the anticipated completion date of the change. The Division reserves the right to require the Permittee to submit to the Division an updated air dispersion model before any proposed modifications or additions take place, including the addition of any concrete plant or asphalt plant.
- 9.2 The Permittee may make changes or additions subject to the requirements of 40 CFR Part 60 Subpart OOO that are not addressed or prohibited by this Permit, without a Permit revision, provided the following requirements are met:
- a. The change is otherwise exempt from State permitting requirements under Rule 391-3-1-.03(6). Specifically: cumulative modifications, not covered in an existing permit, where the combined particulate matter potential to emit increase is below 5 ton/year.
 - b. The equipment is similar in function to permitted equipment already on site.
 - c. The NSPS requirements for Testing, Monitoring, Notification and Record Keeping and those in Parts 4, 5, and 8 of this permit are followed.
 - d. For each such change, the Permittee's written notification well in advance, but no less than seven (7) days in advance of such change and shall include a brief description of the change within the Permitted facility, the date on which the change is proposed to occur, an updated Attachment A, and calculations showing the combined emissions increase for any operations not covered in the existing permit. The Permittee shall attach a copy of such notice to this Permit.

10.0 Special Conditions

- 10.1 The Permittee shall limit the operation of the stone processing facilities as follows:

- a. Maximum of 600 tons of stone per hour processed by the Primary Crushing Plant.
- b. Processing plant shall operate a maximum of 20 hours per day.

Records to verify adherence for limits shall be kept for two years from date of record and shall be kept available for inspection or submittal to Division personnel.

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Permit No. 1422-233-0030-S-01-0

7 of 10

10.2 This Permit voids and supersedes Air Quality Permit No. 1423-115-11891 and any associated amendments.

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Permit No. 1422-233-0030-S-01-0

8 of 10

Attachment A - Equipment List
Vulcan Materials Company
Rockmart Quarry

Note: This attachment contains information regarding specific emissions points and was created as a reference for certain other conditions in this permit. It is not intended to be a comprehensive list of all air pollution sources at this facility and may not include every minor or fugitive emission source. Future minor modifications or additions at this facility may be exempted from permitting by the Georgia Rules for Air Quality Control and may occur without causing this attachment to be updated.

Source	Source Code	Emission Control Equipment	Fabrication Date	NSPS
Dump Hopper	DH1	none	1990	Yes
Grizzly Feeder 48" x 20'	GF1	water spray	1990	Yes
36" x 48" Primary Crusher (Jaw)	JC1	water spray	1990	Yes
Conveyor No. 1 (42" x 30')	C1	water spray	1990	Yes
Conveyor No. 2 (36" x 150')	C2	water spray	1990	Yes
6' x 16' Triple Deck Screen No. 1	S1	water spray	1990	Yes
Tunnel Conveyor No. 3 (36" x 115')	C3	water spray	1990	Yes
Conveyor No. 4 (36" x 113')	C4	water spray	1990	Yes
Conveyor No. 5 (36" x 60')	C5	water spray	1990	Yes
Surge Pile	---	none	N/A	N/A
Secondary Crusher (1415 Impact)	Cr1	water spray	1990	Yes
Conveyor No. 6 (30" x 150')	C6	water spray	1990	Yes
GAB Stockpile No. 1	---	none	N/A	N/A
Conveyor No. 20 (30" x 100')	C20	water spray	1990	Yes
3's Stockpile No. 2	---	none	N/A	N/A
Conveyor No. 7 (36" x 38')	C7	water spray	1990	Yes

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Permit No. 1422-233-0030-S-01-0

9 of 10

Attachment A - Equipment List
Vulcan Materials Company
Rockmart Quarry

Note: This attachment contains information regarding specific emissions points and was created as a reference for certain other conditions in this permit. It is not intended to be a comprehensive list of all air pollution sources at this facility and may not include every minor or fugitive emission source. Future minor modifications or additions at this facility may be exempted from permitting by the Georgia Rules for Air Quality Control and may occur without causing this attachment to be updated.

Source	Source Code	Emission Control Equipment	Fabrication Date	NSPS
Conveyor No. 8 (36" x 135')	C8	water spray	1990	Yes
6' x 16' Triple Deck Screen No. 2	S2	water spray	1990	Yes
6' x 16' Triple Deck Screen No. 3	S3	water spray	1990	Yes
Conveyor No. 11 (30" x 145')	C11	water spray	1990	Yes
Conveyor No. 21 (30" x 100')	C21	water spray	1990	Yes
Cone Crusher (5' Nordberg)	CC1	water spray	1990	Yes
Conveyor No. 12 (30" x 102')	C12	water spray	1990	Yes
Secondary Crusher (1680 Impact)	IC2	water spray	1990	Yes
Conveyor No. 13 (30" x 50')	C13	water spray	1990	Yes
Conveyor No. 9 (30" x 30')	C9	water spray	1990	Yes
Conveyor No. 10 (30" x 100')	C10	water spray	1990	Yes
M-10's Stockpile No. 3	---	none	N/A	N/A
Conveyor No. 14 (36" x 225')	C14	water spray	1990	Yes
6' x 16" TD Washing Screen No 4.	S4	wet process	1990	Yes
Conveyor No. 19 (30" x 100')	C19	wet process	1990	Yes
7's Stockpile No. 4	---	none	N/A	N/A
Conveyor No. 15 (30" x 125')	C15	wet process	pre-83	No

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Permit No. 1422-233-0030-S-01-0

10 of 10

Attachment A - Equipment List
Vulcan Materials Company
Rockmart Quarry

Note: This attachment contains information regarding specific emissions points and was created as a reference for certain other conditions in this permit. It is not intended to be a comprehensive list of all air pollution sources at this facility and may not include every minor or fugitive emission source. Future minor modifications or additions at this facility may be exempted from permitting by the Georgia Rules for Air Quality Control and may occur without causing this attachment to be updated.

Source	Source Code	Emission Control Equipment	Fabrication Date	NSPS
Radial Conveyor No. 16 (30" x 100')	C16	wet process	1990	Yes
57's Stockpile No. 5	---	none	N/A	N/A
Sand Screw	SS1	wet process	N/A	N/A
Conveyor No. 18 (30" x 100')	C18	wet process	1990	Yes
Washed Sand Stockpile No. 6	---	none	N/A	N/A
Conveyor No. 17 (30" x 100')	C17	wet process	1990	Yes
89's Stockpile No. 7	---	none	N/A	N/A
Dump Hopper	DH2	none	1993	Yes
Conveyor No. C4A (36" x 50')	C4A	none	1993	Yes
Conveyor No. C1A (36" x 225')	C1A	none	1995	Yes
6' x 16' TD Wash Screen No. 5	S5	wet process	1995	Yes
Conveyor No. 2A (36" x 30')	C2A	none	1995	Yes
Barmac Crusher	IC3	wet process	1995	Yes
Conveyor No. C3A (36" x 172')	C3A	wet process	1995	Yes