



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
50 West Town Street, Suite 700
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

**RE: FINAL PERMIT TO INSTALL
FRANKLIN COUNTY
Application No: 01-12200
Fac ID: 0125040476**

CERTIFIED MAIL

	TOXIC REVIEW
	PSD
	SYNTHETIC MINOR
	CEMS
	MACT
OOO	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

DATE: 12/27/2007

Shelly Materials Inc Marble Cliff Quarr
Beth Mowrey
399 Frank Rd
Columbus, OH 43076

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

CDO



Permit To Install
Terms and Conditions

Issue Date: 12/27/2007
Effective Date: 12/27/2007

FINAL PERMIT TO INSTALL 01-12200

Application Number: 01-12200

Facility ID: 0125040476

Permit Fee: **\$16350**

Name of Facility: Shelly Materials Inc Marble Cliff Quarr

Person to Contact: Beth Mowrey

Address: 399 Frank Rd
Columbus, OH 43076

Location of proposed air contaminant source(s) [emissions unit(s)]:
2650 Old Dublin Rd
Hilliard, Ohio

Description of proposed emissions unit(s):
Aggregate processing line.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski
Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air

contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental

Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	201.71
PM-10	60.69

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - (F001) - Primary crusher (This PTI replaces PTI No. 01-8172, as issued on February 8, 2001.)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>Fugitive particulate emissions shall not exceed 1.8 pounds per hour and 3.0 tons per year.</p> <p>Fugitive PM-10 emissions shall not exceed 0.81 pound per hour and 1.35 tons per year.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08(B), 3745-17-07(B)(1) and 40 CFR Part 60, Subpart OOO.</p> <p>See section A.2.a below.</p>
OAC rules 3745-17-08(B)	The permittee shall utilize reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See sections A.2.b through A.2.c).
OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60 Subpart OOO.
40 CFR Part 60 Subpart OOO	Visible emissions of fugitive dust discharging from the crusher shall not exceed 15% opacity.

2. Additional Terms and Conditions

- 2.a The material handling operations that are covered by this permit and subject to the above-mentioned requirements are listed below:

material handling operation(s)
 All crushers

control measure(s)
 Wet spray system

- 2.b The permittee shall employ reasonably available control measures for the material handling operations listed above, for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to the use of a wet spray system, in order to maintain compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
- 2.d Except at times when sufficient rainfall exists to eliminate visible emissions of fugitive dust, the wet spray system shall be in operation at all times when this emission unit is operating in order to minimize or eliminate visible emissions of fugitive dust.

B. Operational Restrictions

- 1. The maximum annual tons of material processed shall not exceed 5,000,000 tons based upon a rolling, 12-month summation of the materials processed.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the cumulative tons of material processed in the following table:

Month(s)	Maximum Allowable Cumulative Materials Processed (tons)
1	864,000
1-2	1,728,000
1-3	2,592,200
1-4	3,456,600
1-5	4,032,000
1-6	5,000,000
1-7	5,000,000
1-8	5,000,000
1-9	5,000,000

1-10	5,000,000
1-11	5,000,000
1-12	5,000,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual tons of material processed limitation shall be based upon a rolling, 12-month summation of the tons of materials processed.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>material handling operation(s)</u>	<u>minimum inspection frequency</u>
All crushers	daily

2. The permittee may, upon receipt of written approval from Ohio EPA, CDO, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
3. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the dates when excess visible fugitive particulate emissions were observed and control measure(s) was (were) implemented; and
 - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 3.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

4. The permittee shall also maintain monthly records of the following information:
 - a. the total tons of materials processed ; and
 - b. the rolling, 12 month summation of the tons of materials processed.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each day when excess visible fugitive particulate emissions were observed;
 - b. each day during which an inspection was not performed by the required frequency; and
 - c. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

These deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

2. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12 month limitation on the tons of material processed; and for the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, all exceedances of the maximum allowable cumulative tons of material processed. These deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation: Fugitive particulate emissions shall not exceed 1.8 pounds per hour.

Applicable Compliance Method: Compliance with the allowable hourly mass emission rate for particulate emissions shall be determined by multiplying an emission factor of 0.0012 pound of particulate emissions per ton of stone processed by the emissions unit's maximum process weight rate of 1500 tons per hour. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

Emission Limitation: Fugitive particulate emissions shall not exceed 3.0 tons per year.

Applicable Compliance Method: Compliance with the allowable annual mass emission rate for particulate emissions shall be determined by multiplying an

emission factor of 0.0012 pound of particulate emissions per ton of stone processed by the emissions unit's maximum annual process weight rate of 5 million tons. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

- b. Emission Limitation: Fugitive PM-10 emissions shall not exceed 0.81 pound per hour.

Applicable Compliance Method: Compliance with the allowable hourly mass emission rate for PM-10 emissions shall be determined by multiplying an emission factor of 0.00054 pound of PM-10 emissions per ton of stone processed by the emissions unit's maximum process weight rate of 1500 tons per hour. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

Emission Limitation: Fugitive PM-10 emissions shall not exceed 1.35 tons per year.

Applicable Compliance Method: Compliance with the allowable annual mass emission rate for PM-10 emissions shall be determined by multiplying an emission factor of 0.00054 pound of PM-10 emissions per ton of stone processed by the emissions unit's maximum annual process weight rate of 5 million tons. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

- c. Emission Limitation: Visible emissions of fugitive dust shall not exceed 15% opacity.

Applicable Compliance Method: The permittee shall conduct, or have conducted, emission testing for each conveying operation in accordance with the following requirements.

- i. The emission testing shall be conducted within 180 days of PTI issuance.
- ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitation.
- iii. The following test method shall be employed to demonstrate compliance with the 40 CFR Part 60 Subpart OOO: 40 CFR Part 60, Appendix A, Method 9. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, CDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.

F. Miscellaneous Requirements

- 1. The following source is subject to the applicable provision of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
F001	1500 TPH Jaw Crusher	Subpart 000

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. Construction date (no later than 30 days after such date);
- b. Actual start-up date (within 15 days after such date); and
- c. Date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Shelly Materials Inc Marble Cliff Quarr

PTI Application: 01-12200

Issued: 12/27/2007

Facility ID: 0125040476

Emissions Unit ID: F001

Ohio Environmental Protection Agency
DAPC- Permit Management Unit
50 West Town Street, Suite 700
PO Box 1049
Columbus, Ohio 43216-1049

Shelly Materials Inc Marble Cliff Quarr

PTI Application: 01-12200

Issued: 12/27/2007

Facility ID: 0125040476

Emissions Unit ID: F001

and

Ohio EPA Central District Office
Division of Air Pollution Control
50 West Town Street
Columbus, Ohio 43215.

2. The terms of this permit supercede those identified in PTI No. 01-8172, as issued on February 8, 2001.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - (F002) - HSI tertiary crusher (This PTI replaces PTI No. 01-8172, as issued on February 8, 2001.)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	Fugitive particulate emissions shall not exceed 0.84 pound per hour and 3.0 tons per year. Fugitive PM-10 emissions shall not exceed 0.38 pound per hour and 1.35 tons per year. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08(B), 3745-17-07(B)(1) and 40 CFR Part 60, Subpart OOO. See section A.2.a below.
OAC rules 3745-17-08(B)	The permittee shall utilize reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See sections A.2.b through A.2.c).
OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60 Subpart OOO.
40 CFR Part 60 Subpart OOO	Visible emissions of fugitive dust discharging from the crusher shall not exceed 15% opacity.

2. Additional Terms and Conditions

- 2.a The material handling operations that are covered by this permit and subject to the above-mentioned requirements are listed below:

material handling operation(s)
 All crushers

control measure(s)
 Wet spray system

- 2.b** The permittee shall employ reasonably available control measures for the material handling operations listed above, for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to the use of a wet spray system in order to maintain compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.c** For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

- 2.d** Except at times when sufficient rainfall exists to eliminate visible emissions of fugitive dust, the wet spray system shall be in operation at all times when this emission unit is operating in order to minimize or eliminate visible emissions of fugitive dust.

B. Operational Restrictions

- 1. The maximum annual tons of material processed shall not exceed 5,000,000 tons based upon a rolling, 12-month summation of the materials processed.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the cumulative tons of material processed in the following table:

Month(s)	Maximum Allowable Cumulative Materials Processed (tons)
1	864,000
1-2	1,728,000
1-3	2,592,200
1-4	3,456,600
1-5	4,032,000
1-6	5,000,000
1-7	5,000,000
1-8	5,000,000
1-9	5,000,000

1-10	5,000,000
1-11	5,000,000
1-12	5,000,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual tons of material processed limitation shall be based upon a rolling, 12-month summation of the tons of materials processed.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>material handling operation(s)</u>	<u>minimum inspection frequency</u>
All crushers	daily

2. The permittee may, upon receipt of written approval from Ohio EPA, CDO, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
3. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the dates when excess visible fugitive particulate emissions were observed and control measure(s) was (were) implemented; and
 - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 3.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

4. The permittee shall also maintain monthly records of the following information:
 - a. the total tons of materials processed ; and
 - b. the rolling, 12 month summation of the tons of materials processed.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each day when excess visible fugitive particulate emissions were observed;
 - b. each day during which an inspection was not performed by the required frequency; and
 - c. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

These deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

2. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12 month limitation on the tons of material processed; and for the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, all exceedances of the maximum allowable cumulative tons of material processed. These deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation: Fugitive particulate emissions shall not exceed 0.84 pound per hour .

Applicable Compliance Method: Compliance with the allowable hourly mass emission rate for particulate emissions shall be determined by multiplying an emission factor of 0.0012 pound of particulate emissions per ton of stone processed by the emissions unit's maximum process weight rate of 1200 tons per hour. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

Emission Limitation: Fugitive particulate emissions shall not exceed 3.0 tons per year.

Applicable Compliance Method: Compliance with the allowable annual mass emission rate for particulate emissions shall be determined by multiplying an

emission factor of 0.0012 pound of particulate emissions per ton of stone processed by the emissions unit's maximum annual process weight rate of 5 million tons. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

- b. Emission Limitation: Fugitive PM-10 emissions shall not exceed 0.38 pound per hour.

Applicable Compliance Method: Compliance with the allowable hourly mass emission rate for PM-10 emissions shall be determined by multiplying an emission factor of 0.00054 pound of PM-10 emissions per ton of stone processed by the emissions unit's maximum process weight rate of 1200 tons per hour. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

Emission Limitation: Fugitive PM-10 emissions shall not exceed 1.35 tons per year.

Applicable Compliance Method: Compliance with the allowable annual mass emission rate for PM-10 emissions shall be determined by multiplying an emission factor of 0.00054 pound of PM-10 emissions per ton of stone processed by the emissions unit's maximum annual process weight rate of 5 million tons. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

- c. Emission Limitation: Visible emissions of fugitive dust shall not exceed 15% opacity.

Applicable Compliance Method: The permittee shall conduct, or have conducted, emission testing for each conveying operation in accordance with the following requirements.

- i. The emission testing shall be conducted within 180 days of PTI issuance.
- ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitation.
- iii. The following test method shall be employed to demonstrate compliance with the 40 CFR Part 60 Subpart OOO: 40 CFR Part 60, Appendix A, Method 9. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, CDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.

F. Miscellaneous Requirements

- 1. The following source is subject to the applicable provision of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
F002	1200 TPH HSI Crusher	Subpart 000

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. Construction date (no later than 30 days after such date);
- b. Actual start-up date (within 15 days after such date); and
- c. Date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Shelly Materials Inc Marble Cliff Quarr

PTI Application: 01-12200

Issued: 12/27/2007

Facility ID: 0125040476

Emissions Unit ID: F002

Ohio Environmental Protection Agency
DAPC- Permit Management Unit
50 West Town Street, Suite 700
PO Box 1049
Columbus, Ohio 43216-1049

Shelly Materials Inc Marble Cliff Quarr

PTI Application: 01-12200

Issued: 12/27/2007

Facility ID: 0125040476

Emissions Unit ID: F002

and

Ohio EPA Central District Office
Division of Air Pollution Control
50 West Town Street
Columbus, Ohio 43215.

2. The terms of this permit supercede those identified in PTI No. 01-8172, as issued on February 8, 2001.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - (F003) - VSI crusher (This PTI replaces PTI No. 01-8172, as issued on February 8, 2001.)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>Fugitive particulate emissions shall not exceed 0.84 pound per hour and 3.0 tons per year.</p> <p>Fugitive PM-10 emissions shall not exceed 0.38 pound per hour and 1.35 tons per year.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08(B), 3745-17-07(B)(1) and 40 CFR Part 60, Subpart OOO.</p> <p>See section A.2.a below.</p>
OAC rules 3745-17-08(B)	The permittee shall utilize reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See sections A.2.b through A.2.c).
OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60 Subpart OOO.
40 CFR Part 60 Subpart OOO	Visible emissions of fugitive dust discharging from the crusher shall not exceed 15% opacity.

2. Additional Terms and Conditions

- 2.a The material handling operations that are covered by this permit and subject to the above-mentioned requirements are listed below:

material handling operation(s)
 All crushers

control measure(s)
 Wet spray system

- 2.b The permittee shall employ reasonably available control measures for the material handling operations listed above, for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to the use of a wet spray system in order to maintain compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
- 2.d Except at times when sufficient rainfall exists to eliminate visible emissions of fugitive dust, the wet spray system shall be in operation at all times when this emission unit is operating in order to minimize or eliminate visible emissions of fugitive dust.

B. Operational Restrictions

- 1. The maximum annual tons of material processed shall not exceed 5,000,000 tons based upon a rolling, 12-month summation of the materials processed.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the cumulative tons of material processed in the following table:

Month(s)	Maximum Allowable Cumulative Materials Processed (tons)
1	864,000
1-2	1,728,000
1-3	2,592,200
1-4	3,456,600
1-5	4,032,000
1-6	5,000,000
1-7	5,000,000
1-8	5,000,000
1-9	5,000,000

1-10	5,000,000
1-11	5,000,000
1-12	5,000,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual tons of material processed limitation shall be based upon a rolling, 12-month summation of the tons of materials processed.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>material handling operation(s)</u>	<u>minimum inspection frequency</u>
All crushers	daily

2. The permittee may, upon receipt of written approval from Ohio EPA, CDO, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
3. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the dates when excess visible fugitive particulate emissions were observed and control measure(s) was (were) implemented; and
 - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 3.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

4. The permittee shall also maintain monthly records of the following information:
 - a. the total tons of materials processed ; and
 - b. the rolling, 12 month summation of the tons of materials processed.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each day when excess visible fugitive particulate emissions were observed;
 - b. each day during which an inspection was not performed by the required frequency; and
 - c. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

These deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

2. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12 month limitation on the tons of material processed; and for the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, all exceedances of the maximum allowable cumulative tons of material processed. These deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation: Fugitive particulate emissions shall not exceed 0.84 pound per hour .

Applicable Compliance Method: Compliance with the allowable hourly mass emission rate for particulate emissions shall be determined by multiplying an emission factor of 0.0012 pound of particulate emissions per ton of stone processed by the emissions unit's maximum process weight rate of 1200 tons per hour. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

Emission Limitation: Fugitive particulate emissions shall not exceed 3.0 tons per year.

Applicable Compliance Method: Compliance with the allowable annual mass emission rate for particulate emissions shall be determined by multiplying an

emission factor of 0.0012 pound of particulate emissions per ton of stone processed by the emissions unit's maximum annual process weight rate of 5 million tons. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

- b. Emission Limitation: Fugitive PM-10 emissions shall not exceed 0.38 pound per hour.

Applicable Compliance Method: Compliance with the allowable hourly mass emission rate for PM-10 emissions shall be determined by multiplying an emission factor of 0.00054 pound of PM-10 emissions per ton of stone processed by the emissions unit's maximum process weight rate of 1200 tons per hour. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

Emission Limitation: Fugitive PM-10 emissions shall not exceed 1.35 tons per year.

Applicable Compliance Method: Compliance with the allowable annual mass emission rate for PM-10 emissions shall be determined by multiplying an emission factor of 0.00054 pound of PM-10 emissions per ton of stone processed by the emissions unit's maximum annual process weight rate of 5 million tons. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

- c. Emission Limitation: Visible emissions of fugitive dust shall not exceed 15% opacity.

Applicable Compliance Method: The permittee shall conduct, or have conducted, emission testing for each conveying operation in accordance with the following requirements.

- i. The emission testing shall be conducted within 180 days of PTI issuance.
- ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitation.
- iii. The following test method shall be employed to demonstrate compliance with the 40 CFR Part 60 Subpart OOO: 40 CFR Part 60, Appendix A, Method 9. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, CDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.

F. Miscellaneous Requirements

- 1. The following source is subject to the applicable provision of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
F003	1200 TPH VSI Crusher	Subpart 000

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. Construction date (no later than 30 days after such date);
- b. Actual start-up date (within 15 days after such date); and
- c. Date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Shelly Materials Inc Marble Cliff Quarr

PTI Application: 01-12200

Issued: 12/27/2007

Facility ID: 0125040476

Emissions Unit ID: F003

Ohio Environmental Protection Agency
DAPC- Permit Management Unit
50 West Town Street, Suite 700
PO Box 1049
Columbus, Ohio 43216-1049

Shelly Materials Inc Marble Cliff Quarr

PTI Application: 01-12200

Issued: 12/27/2007

Facility ID: 0125040476

Emissions Unit ID: F003

and

Ohio EPA Central District Office
Division of Air Pollution Control
50 West Town Street
Columbus, Ohio 43215.

2. The terms of this permit supercede those identified in PTI No. 01-8172, as issued on February 8, 2001.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - (F004) - Screen # 1, West Screen and East Screen (This PTI replaces PTI No. 01-8172, as issued on February 8, 2001.)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>Fugitive particulate emissions shall not exceed 6.38 pounds per hour and 16.5 tons per year.</p> <p>Fugitive PM-10 emissions shall not exceed 2.15 pounds per hour and 5.55 tons per year.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08(B), 3745-17-07(B)(1) and 40 CFR Part 60, Subpart OOO.</p> <p>See section A.2.a below.</p>
OAC rules 3745-17-08(B)	The permittee shall utilize reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See sections A.2.b through A.2.c).
OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60 Subpart OOO.
40 CFR Part 60 Subpart OOO	Visible emissions of fugitive dust discharging from the screening operations, transfer points, and conveyors, shall not exceed 10% opacity.

2. Additional Terms and Conditions

- 2.a The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

material handling operation(s)

control measure(s)

All screens

Sufficient moisture content
to control particulate emissions.

2.b The permittee shall employ reasonably available control measures for the above-identified handling operations associated with the screens for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee’s application, the permittee has committed to control fugitive emissions by utilizing sufficient moisture carryover from upstream application. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2.c For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

B. Operational Restrictions

1. The maximum annual tons of material processed shall not exceed 5,000,000 tons based upon a rolling, 12-month summation of the materials processed.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the cumulative tons of material processed in the following table:

Month(s)	Maximum Allowable Cumulative Materials Processed (tons)
1	864,000
1-2	1,728,000
1-3	2,592,200
1-4	3,456,600
1-5	4,032,000
1-6	5,000,000
1-7	5,000,000
1-8	5,000,000
1-9	5,000,000
1-10	5,000,000
1-11	5,000,000
1-12	5,000,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual tons of material processed limitation shall be based upon a rolling, 12-month summation of the tons of materials processed.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>material handling operation(s)</u>	<u>minimum inspection frequency</u>
All Screens	daily

2. The permittee may, upon receipt of written approval from Ohio EPA, CDO, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
3. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the dates when excess visible fugitive particulate emissions were observed and control measure(s) was (were) implemented; and
 - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 3.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

4. The permittee shall also maintain monthly records of the following information:
 - a. the total tons of materials processed ; and
 - b. the rolling, 12 month summation of the tons of materials processed.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each day when excess visible fugitive particulate emissions were observed;
 - b. each day during which an inspection was not performed by the required frequency; and
 - c. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

These deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

2. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12 month limitation on the tons of material processed; and for the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, all exceedances of the maximum allowable cumulative tons of material processed. These deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation: Fugitive particulate emissions shall not exceed 6.38 pounds per hour.

Applicable Compliance Method: Compliance with the allowable hourly mass emission rate for particulate emissions shall be determined by multiplying an emission factor of 0.0022 pound of particulate emissions per ton of stone processed by the emissions unit's maximum process weight rate of 2900 tons per hour. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04). Note: The emissions unit's maximum process weight rate of 2900 tons per hour is derived by adding the process weight for screen 1(1500) to the process weight rate of the east screen(700 TPH) and west screen (700 TPH).

Emission Limitation: Fugitive particulate emissions shall not exceed 16.5 tons per year.

Applicable Compliance Method: Compliance with the allowable annual mass emission rate for particulate emissions shall be determined by multiplying an emission factor of 0.0022 pound of particulate emissions per ton of stone

processed by the emissions unit's maximum annual process weight rate of 5 million tons and then multiplying by the number of screens (3). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

- b. Emission Limitation: Fugitive PM-10 emissions shall not exceed 2.15 pounds per hour.

Applicable Compliance Method: Compliance with the allowable hourly mass emission rate for PM-10 emissions shall be determined by multiplying an emission factor of 0.00074 pound of PM-10 emissions per ton of stone processed by the emissions unit's maximum process weight rate of 2900 tons per hour. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04). Note: The emissions unit's maximum process weight rate of 2900 tons per hour is derived by adding the process weight for screen 1(1500) to the process weight rate of the east screen(700 TPH) and west screen (700 TPH).

Emission Limitation: Fugitive PM-10 emissions shall not exceed 5.55 tons per year.

Applicable Compliance Method: Compliance with the allowable annual mass emission rate for PM-10 emissions shall be determined by multiplying an emission factor of 0.00074 pound of PM-10 emissions per ton of stone processed by the emissions unit's maximum annual process weight rate of 5 million tons and then multiplying by the number of screens (3). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

- c. Emission Limitation: Visible emissions of fugitive dust shall not exceed 10% opacity.

Applicable Compliance Method: The permittee shall conduct, or have conducted, emission testing for each conveying operation in accordance with the following requirements.

- i. The emission testing shall be conducted within 180 days of PTI issuance.
- ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitation.
- iii. The following test method shall be employed to demonstrate compliance with the 40 CFR Part 60 Subpart OOO: 40 CFR Part 60, Appendix A, Method 9. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, CDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.

F. Miscellaneous Requirements

- 1. The following source is subject to the applicable provision of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
F004	Aggregate Handling and Conveying	Subpart 000

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. Construction date (no later than 30 days after such date);
- b. Actual start-up date (within 15 days after such date); and
- c. Date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Shelly Materials Inc Marble Cliff Quarr

PTI Application: 01-12200

Issued: 12/27/2007

Facility ID: 0125040476

Emissions Unit ID: F004

Ohio Environmental Protection Agency
DAPC- Permit Management Unit
50 West Town Street, Suite 700
PO Box 1049
Columbus, Ohio 43216-1049

Shelly Materials Inc Marble Cliff Quarr

PTI Application: 01-12200

Issued: 12/27/2007

Facility ID: 0125040476

Emissions Unit ID: F004

and

Ohio EPA Central District Office
Division of Air Pollution Control
50 West Town Street
Columbus, Ohio 43215.

2. The terms of this permit supercede those identified in PTI No. 01-8172, as issued on February 8, 2001.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - (F005) - Material Handling (This PTI replaces PTI No. 01-8172, as issued on February 8, 2001.)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>Fugitive particulate emissions shall not exceed 14.28 pounds per hour and 23.8 tons per year.</p> <p>Fugitive PM-10 emissions shall not exceed 4.69 pounds per hour and 7.82 tons per year.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08(B), 3745-17-07(B)(1) and 40 CFR Part 60, Subpart OOO.</p> <p>See section A.2.a below.</p>
OAC rules 3745-17-08(B)	The permittee shall utilize reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See sections A.2.b through A.2.c).
OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60 Subpart OOO.
40 CFR Part 60 Subpart OOO	Visible emissions of fugitive dust discharging from the screening operations, transfer points, and conveyors, shall not exceed 10% opacity.

2. Additional Terms and Conditions

- 2.a** The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

material handling operation(s)

Load in or load out or any conveying

control measure(s)

Application of water and dust suppressant where necessary, to control particulate emissions.

2.b The permittee shall employ reasonably available control measures for the above-identified handling operations associated with the screens for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee’s application, the permittee has committed to control fugitive emissions by utilizing water and/or chemical dust suppressant sprays at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2.c For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

B. Operational Restrictions

1. The maximum annual tons of material processed shall not exceed 5,000,000 tons based upon a rolling, 12-month summation of the materials processed.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the cumulative tons of material processed in the following table:

Month(s)	Maximum Allowable Cumulative Materials Processed (tons)
1	864,000
1-2	1,728,000
1-3	2,592,200
1-4	3,456,600
1-5	4,032,000
1-6	5,000,000
1-7	5,000,000
1-8	5,000,000
1-9	5,000,000

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Shelly Materials Inc Marble Cliff Quarr

PTI Application: 01-12200

Issued: 12/27/2007

Facility ID: 0125040476

Emissions Unit ID: F005

Shelly Materials Inc Marble Cliff Quarr
PTI Application: 01-12200
Issued: 12/27/2007

Facility ID: 0125040476
Emissions Unit ID: F005

1-10	5,000,000
1-11	5,000,000
1-12	5,000,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual tons of material processed limitation shall be based upon a rolling, 12-month summation of the tons of materials processed.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>material handling operation(s)</u>	<u>minimum inspection frequency</u>
Load in or load out or any combination of loading or conveying	daily

2. The permittee may, upon receipt of written approval from Ohio EPA, CDO, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
3. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the dates when excess visible fugitive particulate emissions were observed and control measure(s) was (were) implemented; and
 - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 3.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

4. The permittee shall also maintain monthly records of the following information:
 - a. the total tons of materials processed ; and

- b. the rolling, 12 month summation of the tons of materials processed.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each day when excess visible fugitive particulate emissions were observed;
 - b. each day during which an inspection was not performed by the required frequency; and
 - c. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

These deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

2. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12 month limitation on the tons of material processed; and for the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, all exceedances of the maximum allowable cumulative tons of material processed. These deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation: Fugitive particulate emissions shall not exceed 14.28 pounds per hour.

Applicable Compliance Method: Compliance with the allowable hourly mass emission rate for particulate emissions shall be determined by multiplying an emission factor of 0.00014 pound of particulate emissions per ton of stone processed by the emissions unit's maximum process weight rate of 1500 tons per hour and then multiplying by the number of transfer points (68). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

Emission Limitation: Fugitive particulate emissions shall not exceed 23.8 tons per year.

Applicable Compliance Method: Compliance with the allowable annual mass emission rate for particulate emissions shall be determined by multiplying an emission factor of 0.00014 pound of particulate emissions per ton of stone processed by the emissions unit's maximum annual process weight rate of 5 million tons and then multiplying by the number of transfer points (68). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

- b. Emission Limitation: Fugitive PM-10 emissions shall not exceed 4.69 pounds per hour.

Applicable Compliance Method: Compliance with the allowable hourly mass emission rate for particulate emissions shall be determined by multiplying an emission factor of 0.000046 pound of particulate emissions per ton of stone processed by the emissions unit's maximum process weight rate of 1500 tons per hour and then multiplying by the number of transfer points (68). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

Emission Limitation: Fugitive PM-10 emissions shall not exceed 7.82 tons per year.

Applicable Compliance Method: Compliance with the allowable annual mass emission rate for particulate emissions shall be determined by multiplying an emission factor of 0.000046 pound of particulate emissions per ton of stone processed by the emissions unit's maximum annual process weight rate of 5 million tons and then multiplying by the number of transfer points (68). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

- c. Emission Limitation: Visible emissions of fugitive dust shall not exceed 10% opacity.

Applicable Compliance Method: The permittee shall conduct, or have conducted, emission testing for each conveying operation in accordance with the following requirements.

- i. The emission testing shall be conducted within 180 days of PTI issuance.
- ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitation.
- iii. The following test method shall be employed to demonstrate compliance with the 40 CFR Part 60 Subpart OOO: 40 CFR Part 60, Appendix A, Method 9. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, CDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.

F. Miscellaneous Requirements

- 1. The following source is subject to the applicable provision of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
F005	Aggregate Handling and Conveying	Subpart 000

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. Construction date (no later than 30 days after such date);
- b. Actual start-up date (within 15 days after such date); and
- c. Date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Shelly Materials Inc Marble Cliff Quarr

PTI Application: 01-12200

Issued: 12/27/2007

Facility ID: 0125040476

Emissions Unit ID: F005

Ohio Environmental Protection Agency
DAPC- Permit Management Unit
50 West Town Street, Suite 700
PO Box 1049
Columbus, Ohio 43216-1049

and

Ohio EPA Central District Office
Division of Air Pollution Control
50 West Town Street
Columbus, Ohio 43215.

2. The terms of this permit supercede those identified in PTI No. 01-8172, as issued on February 8, 2001.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - (F006) - Mineral extraction (This PTI replaces PTI No. 01-8509, as issued on April 11, 2002.)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	Fugitive particulate emissions shall not exceed 24.04 tons per year. Fugitive PM-10 emissions shall not exceed 11.81 tons per year. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08(B) and 3745-17-07(B)(1). See section A.2.a below.
OAC rules 3745-17-08(B)	The permittee shall utilize reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See sections A.2.b through A.2.c).
OAC rule 3745-17-07(B)(1)	Visible emissions of fugitive dust shall not exceed 20% opacity as a three minute average, except as provided by rule.

2. Additional Terms and Conditions

- 2.a The following mineral extraction operations are covered by this permit and subject to the above mentioned requirements:
 - i. drilling
 - ii. blasting
 - iii. mineral loading
 - iv. bulldozing

- 2.b** The permittee shall employ reasonably available control measures for the above-identified mineral extraction operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to control fugitive emissions by those measures identified in the following table:

Mineral Extraction Operation	Control Measure(s)
mineral loading	water application and/or dust suppressant as necessary
drilling	dust collector and water application and/or dust suppressant as necessary
bulldozing	water application and/or dust suppressant as necessary
blasting	precision detonation techniques, blast control plugs, use of stemming materials

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.c** For each mineral extraction operation, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the mineral extraction operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

B. Operational Restrictions

1. The maximum annual tons of material processed shall not exceed 5,000,000 tons based upon a rolling, 12-month summation of the materials processed.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the cumulative tons of material processed in the following table:

Month(s)	Maximum Allowable Cumulative Materials Processed (tons)
1	864,000

1-2	1,728,000
1-3	2,592,200
1-4	3,456,600
1-5	4,032,000
1-6	5,000,000
1-7	5,000,000
1-8	5,000,000
1-9	5,000,000
1-10	5,000,000
1-11	5,000,000
1-12	5,000,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual tons of material processed limitation shall be based upon a rolling, 12-month summation of the tons of materials processed.

2. The maximum annual blast rate for this emissions unit shall not exceed 260 blasts per year, based upon a rolling, 12-month summation of blasts. The company has existing records for the current operational location such that the applicant does not need to be restricted to first year monthly blasts.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, for mineral extraction operations that are not adequately enclosed, the permittee shall perform inspections of such operations during representative, normal operating conditions in accordance with the following minimum frequencies:

Mineral Extraction Operation	Minimum Inspection Frequency
mineral unloading	once per day of operation
mineral loading	once per day of operation
blasting	once per day of operation
drilling	once per day of operation
bulldozing	once per day of operation

2. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);

- c. the dates when excess visible fugitive particulate emissions were observed and control measure(s) was (were) implemented; and
- d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 2(d) shall be kept separately for each mineral extraction operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

- 3. The permittee shall maintain the following monthly blasting records:
 - a. the date that each blast occurred;
 - b. the total number of blasts each month; and
 - c. the annual, year-to-date, number of blasts [sum of (b) for each calendar month to date from January to December].
- 4. The permittee shall also maintain monthly records of the following information:
 - a. the total tons of materials processed ; and
 - b. the rolling, 12 month summation of the tons of materials processed.

D. Reporting Requirements

- 1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

These deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

- 2. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12 month limitation on the tons of material processed; and for the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, all exceedances of the maximum allowable cumulative tons of material processed. These deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

3. The permittee shall also submit annual written reports that specify:
 - a. the total number of blasts for the previous calendar year.
 - b. the total limestone throughput (i.e. the amount of stone loaded into trucks), in tons, for the previous calendar year.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation: Fugitive particulate emissions shall not exceed 24.04 tons per year.

Applicable Compliance Method: Compliance with the annual particulate emissions limitation shall be based upon the summation of annual particulate emissions from each individual mineral extraction operation , as described by the emission factors and throughput limitations in the table below.

Mineral Extraction Operation	PM emission factor	units	basis	Annual units	Annual emissions (Tons/yr)
Truck unloading	0.0021	lb/ton	AP-42 13.2.4(1/95)	5,000,000	5.20
Truck loading	0.0021	lb/ton	AP-42 13.2.4(1/95)	5,000,000	5.20
Bulldozing	3.57	lb/dozer hour	AP-42 11.9-1(10/98)	1,000	1.79
Drilling	1.30	lb/hole	AP-42 11.9-4(10/98) and 80% control efficiency for the use of a dust collector	13,000	1.69
Blasting	78.27	lb/blast	AP-42 11.9-1(10/98)	260	10.18
					total = 24.04

- b. Emission Limitation: Fugitive PM-10 emissions shall not exceed 11.81 tons per year.

Applicable Compliance Method: Compliance with the annual PM-10 emissions limitation shall be based upon the summation of annual PM-10 emissions from each individual mineral extraction operation, as described by the emission factors and throughput limitations in the table below.

Mineral Extraction Operation	PM-10 emission factor	units	basis	Annual units	Annual emissions (Tons/yr)
Truck unloading	0.0010	lb/ton	AP-42 13.2.4(1/95)	5,000,000	2.46
Truck loading	0.0010	lb/ton	AP-42 13.2.4(1/95)	5,000,000	2.46
Bulldozing	0.47	lb/dozer hour	AP-42 11.9-1(10/98)	1,000	0.24
Drilling	1.05	lb/hole	AP-42 11.9-4(10/98) and 80% control efficiency for the use of a dust collector	13,000	1.37
Blasting	40.70	lb/blast	AP-42 11.9-1(10/98)	260	5.29
					total = 11.81

- c. Emission Limitation: Visible emissions of fugitive dust shall not exceed 20% opacity as a three minute average, except as provided by rule.

Applicable Compliance Method: If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(C) of OAC rule 3745-17-03.

Shelly Materials Inc Marble Cliff Quarr

PTI Application: 01-12200

Issued: 12/27/2007

Facility ID: 0125040476

Emissions Unit ID: F006

F. Miscellaneous Requirements

1. The terms of this permit supercede those identified in PTI No. 01-8509, as issued on April 11, 2002.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - (F007) - Roadways (This PTI replaces PTI No. 01-8509, as issued on April 11, 2002.)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	Fugitive particulate emissions (PE) shall not exceed 112.75 tons per year. Fugitive PM-10 emissions shall not exceed 24.71 tons per year. See section A.2.a below.
OAC rule 3745-17-08(B)	The permittee shall utilize reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See sections A.2.b through A.2.f).
OAC rule 3745-17-07(B)(4)	No visible particulate emission except for six minutes during any 60-minute period from the paved roadways and parking areas (see Section A.2.a)
OAC rule 3745-17-07(B)(5)	No visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed thirteen minutes during any sixty minute observation period.

2. Additional Terms and Conditions

- 2.a The paved and unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

unpaved roadways and parking areas: All unpaved roadways and parking areas.

paved roadways and parking areas: All paved roadways and parking areas.

- 2.b The permittee shall employ reasonably available control measures on all

unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

The permittee shall employ reasonably available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to implement speed control to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.c** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.d** Any unpaved roadway, which during the term of this permit is paved or takes on the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled using appropriate dust control measures for paved roadways. Any unpaved roadway that takes on the characteristics of a paved surface due to the application of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways. Any unpaved area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas. There shall be no visible particulate emissions from any paved roadway or parking area except for a period of time not to exceed six minutes during any sixty minute observation period.
- 2.e** The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.f** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.

Shelly Materials Inc Marble Cliff Quarr

PTI Application: 01-12200

Issued: 12/27/2007

Facility ID: 0125040476

Emissions Unit ID: F007

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform daily inspections of all roadways and parking areas.
2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the dates when excess visible fugitive particulate emissions were observed and control measure(s) was (were) implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 3.d. shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation reports, in accordance with the reporting requirements of the General Terms and Conditions of this permit, that

identify any of the following occurrences:

- a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
- b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

E. Testing Requirements

1. Compliance with the emission limitations in Section A.1 of the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitations: Fugitive particulate emissions (PE) shall not exceed 112.75 tons per year.

Applicable Compliance Method: Compliance with the annual emissions limitation shall be determined by the summation of particulate emissions from the paved roadways and unpaved roadways. The particulate emissions from the paved roadways are determined by using equation 1 found in Chapter 13.2.1.3(12/2003) of AP-42:

Paved roadways

$$E = k(sL/2)^{0.65} (W/3)^{1.5}(1-P/4N) - C$$

where

E = emission factor lbs/VMT

k = particle size multiplier = 0.082

sL = silt loading on road surface = 8.2 g/m²

W = average vehicle weight (tons) = 30(for Customer trucks);

P = number of days with at least 0.01 inches of precipitation per year (149)

N= Number of days in the averaging period(365 for annual)

C = Emission factor for 1980s vehicle fleet exhaust and tire wear (0.00047)

$$E = 6.33 \text{ lbs PM/VMT(for customer trucks);}$$

The maximum miles traveled per year equals 578,947 miles for customer trucks. Therefore, the particulate matter emissions from paved roadways are obtained by multiplying the respective total vehicle miles traveled per year with the derived emission factors of 6.33 lbs/VMT and then dividing by 2,000 pounds per ton. The resulting uncontrolled emissions rate(1648.26 tons) is then multiplied by a fugitive dust control factor of 95% (1-.95), resulting in a controlled emissions rate of 82.41

tons/yr. The 95% fugitive dust control factor is based upon the RACM document and the fugitive dust control measures identified in the application.

The particulate emissions from the unpaved roadways are determined by using equation 2 found in Chapter 13.2.2.2(10/2001) of AP-42:

Unpaved roadways

$$E = k(s/12)^a (W/3)^b$$

E = emission factor lbs/VMT

k = particle size multiplier = 4.9.

sL = silt loading on road surface = 8.2 g/m²

W = average vehicle weight (tons) = see table below

a and b = constants from table 13.2.2-2; a= 0.7; b= 0.45;

Roadway ID	W	Emission factor (PM)	VMT/yr	Uncontrolled emissions (Tons/yr)
Wheelwash to farthest storage pile	30	6.31	166,094	524.33
Equipment lot to work area(FELS)	43	7.43	3,741	13.89
Equipment lot to work area(Rock trucks)	76	9.59	3,117	14.95
Wheelwash to shop	4	2.62	4,216	5.53
loader loading pattern	60	8.63	11,106	47.94

Therefore, the particulate matter emissions from unpaved roadways are obtained by multiplying the total vehicle miles traveled per year with the derived emission factor in the table above and dividing by 2,000 pounds per ton. The resulting uncontrolled emissions rate is then multiplied by a fugitive dust control factor of 95% (1-.95), resulting in a controlled emissions rate of 30.33 tons/yr. (606.64 X 0.05) The 95% fugitive dust control factor is based upon the RACM document and the fugitive dust control measures identified in the application.

The total PM emissions are therefore equal to 112.75 tons / yr. (the sum of the particulate emissions from paved roadways and unpaved roadways)

- b. Emission Limitation: Fugitive PM-10 emissions shall not exceed 24.71 tons per year.

Applicable Compliance Method: Compliance with the annual emissions limitation shall be determined by the summation of PM-10 emissions from the paved roadways and unpaved roadways. The PM-10 emissions from the paved roadways are determined by using equation 1 found in Chapter 13.2.1.3(12/2003) of AP-42:

Paved roadways

$$E = k(sL/2)^{0.65} (W/3)^{1.5} (1-P/4N) - C$$

where

E = emission factor lbs/VMT

k = particle size multiplier = 0.016

sL = silt loading on road surface = 8.2 g/m²

W = average vehicle weight (tons) = 30(for Customer trucks); 13(for other vehicles)

P = number of days with at least 0.01 inches of precipitation per year (149)

N= Number of days in the averaging period(365 for annual)

C = Emission factor for 1980s vehicle fleet exhaust and tire wear (0.00047)

E = 1.23 lbs PM-10/VMT(for customer trucks); 0.35 lbs PM-10/VMT(for other vehicles)

The maximum miles traveled per year equals 578,947 miles for customer trucks and 6,336 miles for other vehicles. Therefore, the PM-10 emissions from paved roadways are obtained by multiplying the respective total vehicle miles traveled per year with the derived emission factors of 1.23 lbs/VMT and 0.35 lbs PM-10/VMT and then dividing by 2,000 pounds per ton. The resulting uncontrolled emissions rate is then multiplied by a fugitive dust control factor of 95% (1-.95), resulting in a controlled emissions rate of 16.08 tons/yr. The 95% fugitive dust control factor is based upon the RACM document and the fugitive dust control measures identified in the application.

The PM-10 emissions from the unpaved roadways are determined by using equation 2 found in Chapter 13.2.2.2(10/2001) of AP-42:

Unpaved roadways

$$E = k(s/12)^a (W/3)^b$$

E = emission factor lbs/VMT

k = particle size multiplier = 4.9.

sL = silt loading on road surface = 8.2 g/m²

W = average vehicle weight (tons) = see table below

a and b = constants from table 13.2.2-2; a= 0.7; b= 0.45;

Roadway ID	W	Emission factor (PM-10)	VMT/yr	Uncontrolled emissions (Tons/yr)
Wheelwash to farthest storage pile	30	1.80	166,094	149.10
Equipment lot to work area(FELS)	43	2.11	3,741	3.95
Equipment lot to work area(Rock trucks)	76	2.73	3,117	4.25
Wheelwash to shop	4	0.75	4,216	1.57
loader loading pattern	60	2.45	11,106	13.63

Therefore, the PM-10 emissions from unpaved roadways are obtained by multiplying the total vehicle miles traveled per year with the derived emission factor in the table above and dividing by 2,000 pounds per ton. The resulting uncontrolled emissions rate(172.5 tons) is then multiplied by a fugitive dust control factor of 95% (1-.95), resulting in a controlled emissions rate of 8.63 tons/yr. The 95% fugitive dust control factor is based upon the RACM document and the fugitive dust control measures identified in the application.

The total PM-10 emissions are therefore equal to 24.71 tons / yr. (the sum of the PM-10 emissions from paved roadways and unpaved roadways)

- c. Emission Limitation: There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed thirteen minutes during any sixty minute observation period.

Applicable Compliance Method: If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(C) of OAC rule 3745-17-03.

- d. Emission Limitation: No visible particulate emission except for six minutes during any 60-minute period from the paved roadways and parking areas.

Applicable Compliance Method: If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix

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existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(C) of OAC rule 3745-17-03.

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Emissions Unit ID: F007

F. Miscellaneous Requirements

1. The terms of this permit supercede those identified in PTI No. 01-8509, as issued on April 11, 2002.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - (F008) - Storage Piles

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	Fugitive particulate emissions (PE) shall not exceed 7.12 tons per year. Fugitive PM-10 emissions shall not exceed 3.55 tons per year.
OAC rule 3745-17-08(B)	The permittee shall utilize reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See sections A.2.b through A.2.e).
OAC rule 3745-17-07(B)	No visible particulate emissions from any material storage pile except for a period of time not to exceed thirteen minutes during any sixty minute observation period.

2. Additional Terms and Conditions

- 2.a The storage piles that are covered by this permit and subject to the above-mentioned requirements are listed below:

All Storage Piles

- 2.b The permittee shall employ reasonably available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to control fugitive emissions by maintaining sufficient moisture content from upstream application to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.c The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned

applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.

2.d The permittee shall employ reasonably available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the application, the permittee has committed to watering storage piles to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2.e The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum load-in inspection frequency</u>
ALL	DAILY

2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum load-out inspection frequency</u>
ALL	DAILY

3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

storage pile identification

minimum wind erosion inspection frequency

ALL

DAILY

4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
6. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 6.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation: Fugitive particulate emissions (PE) shall not exceed 7.12 tons per year.

Applicable Compliance Method: Compliance with the annual particulate emission limitation shall be based upon the summation of particulate emissions from the load in/loadout of material and wind erosion, as described below.

$$EF = k (0.0032) [(U/5)^{1.3} / (M/2)^{1.4}]$$

Where:

- EF = emission factor expressed in pounds per ton (lbs/ton)
- k = particle size multiplier for TSP (dimensionless) = 0.74
- U = mean wind speed expressed in miles per hour (MPH) = 7.67
- M = material moisture content (%) = 3.25

Therefore, EF = 0.00209 lbs/ton

maximum annual load-in throughput = 5,000,000 tons/year
maximum annual load-out throughput = 5,000,000 tons/year
[(2 load activities) (5,000,000 tons/year) (0.00209 lb PE/ton) / 2000lb/ton
= 10.46 TPY of uncontrolled PE

Assume 95% control for watering
(10.46 TPY) (.05) = 0.52 TPY of controlled PE; and

Based upon the following equation, which follows from Section 13.2.4.3 of AP-42, the emissions due to wind erosion are calculated as follows

$$E = 1.7(s/1.5)((365-p)/235)(f/15)(365)(A/2000)$$

- where E equals the emission factor in lbs/day/acre
- s equals the silt content of the stored materials = 10%
- p equals the number of days w more than 0.1 inch of precipitation = 149
- f equals the percentage of time the wind speed exceeds 12 mph = 13
- A equals the totals surface area of the specific storage pile = 80.07

The total emissions from wind erosion after the application of a 95% control factor is 6.60 tons per year. Summation of the emissions due to load in/load out and wind erosion results in a total annual particulate emission rate of 7.12 tons.

- b. Emission Limitation: Fugitive PM-10 emissions shall not exceed 3.55 tons per year.

Applicable Compliance Method: Compliance with the annual particulate emission limitation shall be based upon the summation of particulate emissions from the load in/loadout of material and wind erosion, as described below.

$$EF = k (0.0032) [(U/5)^{1.3} / (M/2)^{1.4}]$$

Where:

EF = emission factor expressed in pounds per ton (lbs/ton)

k = particle size multiplier for TSP (dimensionless) = 0.35

U = mean wind speed expressed in miles per hour (MPH) = 7.67

M= material moisture content (%) = 3.25

Therefore, EF = 0.00099 lbs/ton

maximum annual load-in throughput = 5,000,000 tons/year

maximum annual load-out throughput = 5,000,000 tons/year

[(2 load activities) (5,000,000 tons/year) (0.00099 lb PE/ton)/ 2000lb/ton

= 4.95 TPY of uncontrolled PE

Assume 95% control for watering

(4.95 TPY) (.05) = 0.25 TPY of controlled PM-10; and

Based upon the following equation, which follows from Section 13.2.4.3 of AP-42, the emissions due to wind erosion are calculated as follows

$$E = 1.7(s/1.5)((365-p)/235)(f/15)(365)(A/2000)$$

where E equals the emission factor in lbs/day/acre

s equals the silt content of the stored materials = 10%

p equals the number of days w more than 0.1 inch of precipitation = 149

f equals the percentage of time the wind speed exceeds 12 mph = 13

A equals the totals surface area of the specific storage pile = 80.07

The total emissions from wind erosion after the application of a 95% control factor is 3.30 tons per year. Summation of the emissions due to load in/load out and wind erosion results in a total annual particulate emission rate of 3.55 tons.

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- b. Emission Limitation Method: There shall be no visible particulate emissions from any material storage pile except for a period of time not to exceed thirteen minutes during any sixty minute observation period.

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Applicable Compliance Method: If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(C) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

None

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - (F009) - Number 2 screen

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>Fugitive particulate emissions shall not exceed 3.3 pounds per hour and 5.5 tons per year.</p> <p>Fugitive PM-10 emissions shall not exceed 1.11 pounds per hour and 1.85 tons per year.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08(B), 3745-17-07(B)(1) and 40 CFR Part 60, Subpart OOO.</p> <p>See section A.2.a below.</p>
OAC rules 3745-17-08(B)	The permittee shall utilize reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See sections A.2.b through A.2.d).
OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60 Subpart OOO.
40 CFR Part 60 Subpart OOO	Visible emissions of fugitive dust discharging from the screening operations, transfer points, and conveyors, shall not exceed 10% opacity.

2. Additional Terms and Conditions

- 2.a The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

material handling operation(s)
 All screens

control measure(s)
 Sufficient moisture content

to control particulate emissions.

- 2.b** The permittee shall employ reasonably available control measures for the above-identified handling operations associated with the screens for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee’s application, the permittee has committed to control fugitive emissions by utilizing sufficient moisture carryover from upstream application. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.c** For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

B. Operational Restrictions

- 1. The maximum annual tons of material processed shall not exceed 5,000,000 tons based upon a rolling, 12-month summation of the materials processed.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the cumulative tons of material processed in the following table:

Month(s)	Maximum Allowable Cumulative Materials Processed (tons)
1	864,000
1-2	1,728,000
1-3	2,592,200
1-4	3,456,600
1-5	4,032,000
1-6	5,000,000
1-7	5,000,000
1-8	5,000,000
1-9	5,000,000
1-10	5,000,000
1-11	5,000,000
1-12	5,000,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual tons of material processed limitation shall be based upon a rolling, 12-month summation of the tons of materials processed.

C. Monitoring and/or Recordkeeping Requirements

- 1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>material handling operation(s)</u>	<u>minimum inspection frequency</u>
All Screens	daily

- 2. The permittee may, upon receipt of written approval from Ohio EPA, CDO, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- 3. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the dates when excess visible fugitive particulate emissions were observed and control measure(s) was (were) implemented; and
 - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 3.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

- 4. The permittee shall also maintain monthly records of the following information:
 - a. the total tons of materials processed ; and
 - b. the rolling, 12 month summation of the tons of materials processed.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each day when excess visible fugitive particulate emissions were observed;
 - b. each day during which an inspection was not performed by the required frequency; and
 - c. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

These deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

2. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12 month limitation on the tons of material processed; and for the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, all exceedances of the maximum allowable cumulative tons of material processed. These deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation: Fugitive particulate emissions shall not exceed 3.3 pounds per hour.

Applicable Compliance Method: Compliance with the allowable hourly mass emission rate for particulate emissions shall be determined by multiplying an emission factor of 0.0022 pound of particulate emissions per ton of stone processed by the emissions unit's maximum process weight rate of 1500 tons per hour. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

Emission Limitation: Fugitive particulate emissions shall not exceed 5.5 tons per year.

Applicable Compliance Method: Compliance with the allowable annual mass emission rate for particulate emissions shall be determined by multiplying an emission factor of 0.0022 pound of particulate emissions per ton of stone processed by the emissions unit's maximum annual process weight rate of 5 million

tons . This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

- b. Emission Limitation: Fugitive PM-10 emissions shall not exceed 1.11 pounds per hour .

Applicable Compliance Method: Compliance with the allowable hourly mass emission rate for PM-10 emissions shall be determined by multiplying an emission factor of 0.00074 pound of PM-10 emissions per ton of stone processed by the emissions unit's maximum process weight rate of 1500 tons per hour. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

Emission Limitation: Fugitive PM-10 emissions shall not exceed 1.85 tons per year.

Applicable Compliance Method: Compliance with the allowable annual mass emission rate for PM-10 emissions shall be determined by multiplying an emission factor of 0.00074 pound of PM-10 emissions per ton of stone processed by the emissions unit's maximum annual process weight rate of 5 million tons. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

- c. Emission Limitation: Visible emissions of fugitive dust shall not exceed 10% opacity.

Applicable Compliance Method: The permittee shall conduct, or have conducted, emission testing for each conveying operation in accordance with the following requirements.

- i. The emission testing shall be conducted within 180 days of PTI issuance.
- ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitation.
- iii. The following test method shall be employed to demonstrate compliance with the 40 CFR Part 60 Subpart OOO: 40 CFR Part 60, Appendix A, Method 9. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, CDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.

F. Miscellaneous Requirements

- 1. The following source is subject to the applicable provision of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
F009	Aggregate Screening	Subpart 000

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. Construction date (no later than 30 days after such date);
- b. Actual start-up date (within 15 days after such date); and
- c. Date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC- Permit Management Unit
50 West Town Street, Suite 700

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Emissions Unit ID: F010

PO Box 1049
 Columbus, Ohio 43216-1049

and

Ohio EPA Central District Office
 Division of Air Pollution Control
 50 West Town Street
 Columbus, Ohio 43215.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - (F010) - HSI Crusher

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	Fugitive particulate emissions shall not exceed 1.8 pounds per hour and 3.0 tons per year. Fugitive PM-10 emissions shall not exceed 0.81 pound per hour and 1.35 tons per year. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08(B), 3745-17-07(B)(1) and 40 CFR Part 60, Subpart OOO. See section A.2.a below.
OAC rules 3745-17-08(B)	The permittee shall utilize reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See sections A.2.b through A.2.c).
OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60 Subpart OOO.

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
40 CFR Part 60 Subpart OOO	Visible emissions of fugitive dust discharging from the crusher shall not exceed 15% opacity.

2. Additional Terms and Conditions

2.a The material handling operations that are covered by this permit and subject to the above-mentioned requirements are listed below:

<u>material handling operation(s)</u>	<u>control measure(s)</u>
All crushers	Wet spray system

2.b The permittee shall employ reasonably available control measures for the material handling operations listed above, for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee’s permit application, the permittee has committed to the use of a wet spray system, in order to maintain compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2.c For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

2.d Except at times when sufficient rainfall exists to eliminate visible emissions of fugitive dust, the wet spray system shall be in operation at all times when this emission unit is operating in order to minimize or eliminate visible emissions of fugitive dust.

B. Operational Restrictions

1. The maximum annual tons of material processed shall not exceed 5,000,000 tons based upon a rolling, 12-month summation of the materials processed.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the cumulative tons of material processed in the following table:

Month(s)	Maximum Allowable Cumulative Materials Processed (tons)
1	864,000
1-2	1,728,000
1-3	2,592,200
1-4	3,456,600
1-5	4,032,000
1-6	5,000,000
1-7	5,000,000
1-8	5,000,000
1-9	5,000,000
1-10	5,000,000
1-11	5,000,000
1-12	5,000,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual tons of material processed limitation shall be based upon a rolling, 12-month summation of the tons of materials processed.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>material handling operation(s)</u>	<u>minimum inspection frequency</u>
All crushers	daily

2. The permittee may, upon receipt of written approval from Ohio EPA, CDO, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
3. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the dates when excess visible fugitive particulate emissions were observed and control measure(s) was (were) implemented; and

- d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 3.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

- 4. The permittee shall also maintain monthly records of the following information:
 - a. the total tons of materials processed ; and
 - b. the rolling, 12 month summation of the tons of materials processed.

D. Reporting Requirements

- 1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each day when excess visible fugitive particulate emissions were observed;
 - b. each day during which an inspection was not performed by the required frequency; and
 - c. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

These deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

- 2. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12 month limitation on the tons of material processed; and for the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, all exceedances of the maximum allowable cumulative tons of material processed. These deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

- 1. Compliance with the emission limitation(s) in Section A.I of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation: Fugitive particulate emissions shall not exceed 1.8 pounds per hour.

Applicable Compliance Method: Compliance with the allowable hourly mass emission rate for particulate emissions shall be determined by multiplying an emission factor of 0.0012 pound of particulate emissions per ton of stone processed by the emissions unit's maximum process weight rate of 1500 tons per hour. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

Emission Limitation: Fugitive particulate emissions shall not exceed 3.0 tons per year.

Applicable Compliance Method: Compliance with the allowable annual mass emission rate for particulate emissions shall be determined by multiplying an emission factor of 0.0012 pound of particulate emissions per ton of stone processed by the emissions unit's maximum annual process weight rate of 5 million tons. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

- b. Emission Limitation: Fugitive PM-10 emissions shall not exceed 0.81 pound per hour .

Applicable Compliance Method: Compliance with the allowable hourly mass emission rate for PM-10 emissions shall be determined by multiplying an emission factor of 0.00054 pound of PM-10 emissions per ton of stone processed by the emissions unit's maximum process weight rate of 1500 tons per hour. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

Emission Limitation: Fugitive PM-10 emissions shall not exceed 1.35 tons per year.

Applicable Compliance Method: Compliance with the allowable annual mass emission rate for PM-10 emissions shall be determined by multiplying an emission factor of 0.00054 pound of PM-10 emissions per ton of stone processed by the emissions unit's maximum annual process weight rate of 5 million tons. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11.19.2, Table 11.19.2-2(8/04).

- c. Emission Limitation: Visible emissions of fugitive dust shall not exceed 15% opacity.

Applicable Compliance Method: The permittee shall conduct, or have conducted, emission testing for each conveying operation in accordance with the following requirements.

- i. The emission testing shall be conducted within 180 days of PTI issuance.
- ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitation.
- iii. The following test method shall be employed to demonstrate compliance with the 40 CFR Part 60 Subpart OOO: 40 CFR Part 60, Appendix A, Method 9. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, CDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.

F. Miscellaneous Requirements

1. The following source is subject to the applicable provision of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR part 60.

Shelly Materials Inc Marble Cliff Quarr

PTI Application: 01-12200

Issued: 12/27/2007

Facility ID: 0125040476

Emissions Unit ID: F010

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
F010	1200 TPH HSI Crusher	Subpart OOO

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. Construction date (no later than 30 days after such date);
- b. Actual start-up date (within 15 days after such date); and
- c. Date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC- Permit Management Unit
50 West Town Street, Suite 700
PO Box 1049
Columbus, Ohio 43216-1049

Shelly Materials Inc Marble Cliff Quarr

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and

Ohio EPA Central District Office
Division of Air Pollution Control
50 West Town Street
Columbus, Ohio 43215.

Shelly Materials Inc Marble Cliff Quarr
PTI Application: 01-12200
Issued: 12/27/2007

Facility ID: 0125040476

IDENTIFY THE AIR CONTAMINANTS: _____

SIC CODE 1422 SCC CODE 3-05-030-03 EMISSIONS UNIT ID F002

EMISSIONS UNIT DESCRIPTION HSI tertiary crusher

DATE INSTALLED _____

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.84	3.0	0.84	3.0
PM ₁₀	non attainment	0.38	1.35	0.38	1.35
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? _____ NESHAP? **000** PSD? _____ OFFSET POLICY? _____

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination Compliance w/ the permitted emission limits and applicable rules

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ n/a

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to containinants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES x NO

Shelly Materials Inc Marble Cliff Quarr
PTI Application: 01-12200
Issued: 12/27/2007

Facility ID: 0125040476

IDENTIFY THE AIR CONTAMINANTS: _____

SIC CODE 1422 SCC CODE 3-05-030-03 EMISSIONS UNIT ID F003

EMISSIONS UNIT DESCRIPTION VSI crusher

DATE INSTALLED _____

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.84	3.0	0.84	3.0
PM ₁₀	non attainment	0.38	1.35	0.38	1.35
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? _____ NESHAP? **000** PSD? _____ OFFSET POLICY? _____

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination Compliance w/ the permitted emission limits and applicable rules

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ n/a

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to containinants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES x NO

Shelly Materials Inc Marble Cliff Quarr
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IDENTIFY THE AIR CONTAMINANTS: _____

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IDENTIFY THE AIR CONTAMINANTS: _____

Shelly Materials Inc Marble Cliff Quarr

PTI Application: 01-12200

Issued: 12/27/2007

Facility ID:

0125040476

IDENTIFY THE AIR CONTAMINANTS: _____