



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
GREENE COUNTY**

**CERTIFIED MAIL**

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 08-04362**

**DATE: 3/12/2002**

Martin Marietta Materials Inc-Xenia  
Katherine Hanna  
4770 Duke Dr Ste 200  
Mason, OH 45040-7500

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 by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 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. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: USEPA

RAPCA



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**Permit To Install  
Terms and Conditions**

**Issue Date: 3/12/2002  
Effective Date: 3/12/2002**

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**FINAL PERMIT TO INSTALL 08-04362**

Application Number: 08-04362  
APS Premise Number: 0829710085  
Permit Fee: **\$1200**  
Name of Facility: Martin Marietta Materials Inc-Xenia  
Person to Contact: Katherine Hanna  
Address: 4770 Duke Dr Ste 200  
Mason, OH 45040-7500

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**1337 Dayton-Xenia Rd  
Xenia, Ohio**

Description of proposed emissions unit(s):  
**aggregate processing plant modification of F001; chapter 31 replacing 08-04362 issued 9-1-99.**

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

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 Related to Monitoring and Recordkeeping 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 quarterly, i.e., 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

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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

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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 application must be made to the Director for the installation or modification of any other emissions unit(s).

**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 thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

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**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>
particulate	24.97

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. Applicable Emissions Limitations and/or Control Requirements**

- 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.

<u>Operations, Property, and/or Equipment</u>	
	25 tons/hr; 7' x 16' Hewitt Robins **modification 3D screen (tertiary)

## F001 - Aggregate Processing Plant

Crushing Operations: 68 tons/hr; 10" x 36" AW Jaw Crusher (primary)	Material Handling(some saturated material handling equipment is not subject to testing per NSPS OOO): 22 conveyors
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113 tons/hr; 4' SH Nordberg Crusher (secondary)	(2) Eagle Metering Bins
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27 tons/hr; 4 1/4 SH Cone (tertiary crusher)	28' Eagle Scalping Tank
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Screening Operations: 600 tons/hr each; (2) *6' x 20' 3D Eljay Screens (primary)	44" Eagle SSFM Washer 30" x 86" Radial stacker #2
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450 tons/hr; *6' x 16' 3D Tabor Screen (secondary)	42" x 72" FMC Feeder
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	24" x Radial Stacker #15
270 tons/hr; *5' x 16 3D Tabor Screen (secondary)	24" x 100' Radial Stacker #13

	24" x 110' Radial Stacker #1a
207 tons/hr; *5' x 14' 3 1/3 D Diester Screen (tertiary)	44" Cindaco Sand Screw

42 tons/hr; 5' x 14' 3D ACRF Screen (tertiary)	24" x 65" CS Stacker Hopper
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**Martin**

**PTI A**

**Issued: 3/12/2002**

Emissions Unit ID: F001

Applicable Rules/Requirements

OAC rule 3745-31-05(A)(3)

\*NSPS 40 CFR Part 60, Subpart  
OOO

Applicable Emissions  
Limitations/Control Measures

The requirements of this rule also include compliance with the requirements of NSPS 40 CFR Part 60, Subpart 000.

6.4 lbs/hr and 19.31 tons/yr  
particulate  
emissions plant wide

15% opacity, as a 6-minute average  
from the crushers

10% opacity, as a 6-minute average  
from the unsaturated screens

10% opacity, as a 6-minute average  
from any unsaturated transfer point

no visible emissions from all  
saturated equipment except  
crushers

10% opacity, as a 6-minute average  
from the screens

10% opacity, as a 6-minute average  
from any transfer point

no visible emissions from all  
saturated equipment except  
crushers

**2. Additional Terms and Conditions**

- 2.a** The hourly emission limitation was established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.
  
- 2.b** The aggregate materials processed through the equipment identified under this emissions unit shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust from the crushers, screens, conveyors and transfer points, so that compliance with the opacity requirements specified above is continuously maintained.

**B. Operational Restrictions**

1. The maximum annual production rate for this facility shall not exceed 2,000,000 tons.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the total aggregate materials produced in this facility.
2. The permittee shall conduct visible emission evaluations (all unsaturated screens and unsaturated crushers) at a minimum annually. The VE evaluations shall be performed during the period of May 1 through September 30. The duration of the Method 9 observations shall be 1 hour at a minimum (ten 6-minute averages), and twenty 3-minute averages.

**D. Reporting Requirements**

1. The permittee shall submit annual reports of the annual production rate for this facility. These reports shall be submitted by January 31 of each year to the Director (the appropriate Ohio EPA DO or laa).
2. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) of any Method 9 evaluation that did not demonstrate compliance with the opacity requirements specified above. The notification shall be in writing and shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA DO or laa) within 30 days after the exceedance occurs.
3. The permittee shall report within 30 days, any change in the saturated or unsaturated nature of the material being processed in the screens and conveyors. The affected emissions unit is then subject to the provisions of the standard applicable to the type of material being processed.

**E. Testing Requirements**

1. Compliance with the emission limitations in this permit for emissions unit F001 shall be determined in accordance with the following method(s):
  - a. Emission Limitation-  
6.4 lbs/hr particulate combined  
  
Applicable Compliance Method-  
Compliance shall be determined by summing the maximum hourly emission rates for the

Emissions Unit ID: F001

crusher, screens, and the material handling equipment. (See i. through vii. below)

- i. The maximum hourly emission rate for the primary crusher is determined by multiplying the maximum hourly production rate of 68 tons/hour by the emission factor of 0.00070 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95).
  - ii. The maximum hourly emission rate for the secondary crusher is determined by multiplying the maximum hourly production rate of 113 tons/hr, by the emission factor of 0.001239 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95).
  - iii. The maximum hourly emission rate for the tertiary crusher is determined by multiplying the maximum hourly production rate of 27 tons/hour by the emission factor of 0.001239 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95).
  - iv. The maximum hourly emission rate for the primary screens are determined by multiplying the maximum hourly production rate of 600 tons/hour for each screen by the emission factor of 0.001764 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and summing the emissions rates for the two screens. .
  - v. The maximum hourly emission rate for the secondary screens are determined by multiplying the maximum hourly production rate of 450 tons/hour and 270 tons/hr respectively by the emission factor of 0.001764 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and summing the emissions rates for the two screens.
  - vi. The maximum hourly emission rate for the tertiary screens are determined by multiplying the maximum hourly production rate of 207 tons/hour, 42 tons/hr, and 25 tons/hr respectively by the emission factor of 0.001764 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and summing the emissions rates for the three screens.
  - vii. The maximum hourly emission rate for the material handling equipment is determined by multiplying the maximum hourly production rates of 600 tons/hr for each piece of equipment by the emission factor of 0.000101 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and summing the emission rates for each piece of equipment.
- b. Emission Limitation-  
19.31 tons/yr particulate combined
- Applicable Compliance Method-

Compliance shall be determined by summing the annual emission rates for the crushers, screens and material handling equipment. (See i. through vii. below)

- i. The annual emission rate for the primary crusher is determined by multiplying the 12-monthly production records for the calendar year, by the emission factor of 0.00070 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton.
- ii. The annual emission rate for the secondary crusher is determined by multiplying the 12-monthly production records for the calendar year, by the emission factor of 0.001239 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton.
- iii. The annual emission rate for the tertiary crusher is determined by multiplying the 12-monthly production records for the calendar year, by the emission factor of 0.001239 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton.
- iv. The annual emission rate for the primary screens are determined by multiplying the 12-monthly production records for the calendar year, by the emission factor of 0.001764 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton and summing the emission rates for the two screens.
- v. The annual emission rate for the secondary screens are determined by multiplying the 12-monthly production records for the calendar year for each screen by the emission factor of 0.001764 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton and summing the emission rates for the two screens.
- vi. The annual emission rate for the tertiary screens are determined by multiplying the 12-monthly production records for the calendar year by the emission factor of 0.001764 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton and summing the emission rates for the three screens.
- vii. The annual emission rate for the material handling equipment is determined by multiplying the 12-monthly production records for the calendar year for each piece of equipment by the emission factor of 0.000101 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds

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Emissions Unit ID: F001

per ton and summing the emission rates for the material handling equipment.

- c. Emission Limitation-  
15% opacity, as a 6-minute average (crusher)

Applicable Compliance Method-

Compliance shall be determined by visible emission evaluations performed using the methods and procedures specified in USEPA Reference Method 9.

- d. Emission Limitation-  
10% opacity, as a 6-minute average (screens, transfer points, conveyors, material handling equipment)

Applicable Compliance Method-

Compliance shall be determined by visible emission evaluations performed using the methods and procedures specified in USEPA Reference Method 9 and 40 CFR 60.675 Subpart OOO.

- e. Emission Limitation-  
No visible emissions (saturated equipment)

Applicable Compliance Method-

Compliance shall be based on USEPA 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, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

**F. Miscellaneous Requirements**

1. \*\*Terms in this permit supercede those identified in PTI 08-04063 issued 09/01/99 and represents a 8.98 tons/yr increase of particulate emissions.

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F002 - Mineral Extraction	OAC rule 3745-31-05(A)(3)	5.66 tons/yr particulate  reasonable available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust  visible particulate emissions shall not exceed 20% opacity as a 3-minute average (as recorded during any sixty-minute period)

**2. Additional Terms and Conditions**

- 2.a The annual emission limitation was established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.
- 2.b The permittee shall employ reasonable available control measures during material removal and loading for the purpose of ensuring compliance with the above mentioned applicable requirements. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by applying water at sufficient frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

**B. Operational Restrictions**

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**Emissions Unit ID: F002**

1. The permittee shall apply water at all points necessary to ensure compliance with the visible emission limitations.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall perform daily checks, when mineral extraction and material handling is taking place and when the weather conditions allow, for any visible fugitive particulate emissions from any material extraction and material handling operation. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the location and color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

**D. Reporting Requirements**

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from (mineral extraction and material handling etc.) serving this emissions unit, and (b) describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

**E. Testing Requirements**

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

- a. Emission Limitation:  
5.66 tons/yr particulate

Applicable Compliance Method:

Compliance with the emission limit can be demonstrated through a one time calculation using the maximum throughput for overburden removal, scraper unloading/placement of soil for reclamation and loading operations and the emission factors found in AP 42 section 13.2.3-1 (1/95) and section 11.9-4.(10/98)

- b. Emission Limitation:  
20% opacity as a 3 minute average

Applicable Compliance Method:

Compliance shall be determined in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures specified in USEPA Reference Method 9.

**F. Miscellaneous Requirements**

None