



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
MADISON 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: 01-08445

DATE: 2/12/2002

Tuffco Sand and Gravel Inc
Charles Lewis
P.O. Box 399
Marysville, OH 43040

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

CDO



**Permit To Install
Terms and Conditions**

**Issue Date: 2/12/2002
Effective Date: 2/12/2002**

FINAL PERMIT TO INSTALL 01-08445

Application Number: 01-08445
APS Premise Number: 0149000122
Permit Fee: **\$1100**
Name of Facility: Tuffco Sand and Gravel Inc
Person to Contact: Charles Lewis
Address: P.O. Box 399
Marysville, OH 43040

Location of proposed air contaminant source(s) [emissions unit(s)]:
**8195 Old State Route 161
Plain City, Ohio**

Description of proposed emissions unit(s):
Unpaved roads and parking area.

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>
PE	33.8
NO _x	21.6
SO ₂	1.4
CO	4.7
VOCs	1.7

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>
F001 - unpaved roadways and parking area (see Section II.A.2.a)	OAC rule 3745-31-05(A)(3)	12.5 tons particulate emissions (PE) per year no visible PE except for 3 minutes during any 60-minute period best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections II.A.2.b through A.2.f)
	OAC rule 3745-17-08(B)	See Section II.A.2.g below.

2. Additional Terms and Conditions

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

unpaved roadways:

entrance road

service road

unpaved parking areas:

parking area

- 2.b** The permittee shall employ best 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 chemical dust suppressants and water 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** 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 an 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** 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.e** 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.
- 2.f** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.
- 2.g** Since this emissions unit is not located in an Appendix A area, pursuant to paragraph (A)(1) of OAC rule 3745-17-08, the requirements of OAC rule 3745-17-08(B) do not apply to the fugitive emissions from this emissions unit.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the roadways and parking areas in accordance with the following frequencies:
 - a. unpaved roadways and parking areas:
all

minimum inspection frequency:
daily
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 may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, 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.
4. 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 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 4.d. 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.
2. 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.1 of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:
12.5 tons PE /year from unpaved roadways and parking areas

Applicable Compliance Method:

Compliance with this emission limitation for the unpaved roadways and parking areas identified above shall be determined by using the emission factor for unpaved roadways as stated in AP-42, 5th Edition, September 1998, Chapter 13.2.2, Equation (2). This equation will provide the emission factor for particulate matter in pounds per vehicle mile traveled. This emission factor is then multiplied by the total annual vehicle miles traveled and divided by 2000 pounds to obtain the total annual uncontrolled PE emissions (in tons per year).

- b. Emission Limitation:
no visible PE except for 3 minutes during any 60-minute period

Applicable Compliance Method:

Compliance with the emission limitation for the unpaved roadways and parking area identified 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, 1996, and the

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F002 - load-in and load-out of aggregate storage piles and wind erosion from storage piles (see Section II.A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3)	13 tons particulate emissions (PE) per year No visible emissions except for one minute in any hour Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections II.A.2.b through A.2.f)
	OAC rule 3745-17-08(B)	See Section II.A.2.g. below.

2. Additional Terms and Conditions

- 2.a The storage piles that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:

aggregate piles
washed aggregate piles

- 2.b The permittee shall employ best 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 permit application, the permittee has committed to reducing the drop height of front-end loader buckets and maintaining a high moisture content in the piles to ensure compliance.

Emissions Unit ID: **F002**

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 best 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 permittee's permit application, the permittee has committed to maintaining a high moisture content in the 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.
- 2.f** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
- 2.g** Since this emissions unit is not located in an Appendix A area, pursuant to paragraph (A)(1) of OAC rule 3745-17-08, the requirements of OAC rule 3745-17-08(B) do not apply to the fugitive emissions from this emissions unit.

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:

storage pile identification

all storage piles

minimum load-in inspection frequency

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:

storage pile identification

all storage piles

minimum load-out inspection frequency

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

all storage piles

minimum wind erosion inspection frequency

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 may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating

Emissions Unit ID: **F002**

experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

7. 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 7.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 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.
2. 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.1 of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:
13 tons PE per year from storage piles

Applicable Compliance Method:

Compliance with the emission limitation for the storage piles identified above shall be determined by using the emission factor for storage piles as stated in AP-42, 5th Edition, January 1995, Chapter 13.2.4, Equation (1). This equation will provide the particulate emission factor for the load-in and load-out operations in pounds per ton. The emission factor for wind erosion from the storage piles shall be determined by using the emission factor equation stated in "Control of Open Fugitive Dust Sources," U.S. EPA, September 1988, Chapter 4.1.3, Equation (4-9). The associated emission factors shall be multiplied by the appropriate production capacities to obtain the emission rates. The emissions from all load-in and load-out operations and wind erosion shall be summed to obtain the total annual PE emissions.

- b. Emission Limitation:
No visible emissions except for one minute in any hour

Applicable Compliance Method:

Compliance with the visible emission limitations for storage piles identified 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, 1996, 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

- 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	5X12 3-Deck)	2.45 mmBtu/hr No.2 diesel engine for aggregate processing plant
F003 - portable aggregate processing plant with 350 tons per hour crusher:		
Crushing - 350 tons per hour primary crusher (Hazmag model #1313)		
	Conveying and handling (conveying and transfer points)	
Screening - 100 tons per hour (Allis		

<u>Applicable Rules/Requirements</u>	OAC rule 3745-31-05(A)(3)	<u>Applicable Emissions Limitations/Control Measures</u>
OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-07(B)	Particulate emissions (PE) shall not exceed 1.8 tons per year.
OAC rule 3745-17-07(B)	OAC rule 3745-17-08(B)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO. See Sections II.A.2.a and b below.
OAC rule 3745-17-08(B)	40 CFR Part 60, Subpart OOO	The emission limitation specified in this rule is less stringent than the emission limitation established by 40 CFR Part 60, Subpart OOO.
40 CFR Part 60, Subpart OOO	OAC 3745-31-05 (A)(3)	See Section II.A.2.c below.
OAC rule 3745-31-05(A)(3)	OAC 3745-17-07(A)	Visible emissions of fugitive dust shall not exceed 15% opacity as a 6-minute average, except as provided by the rule. PE shall not exceed 0.8 ton per year. See Sections II.A.2.d and e below.
OAC rule 3745-17-07(B)	OAC 3745-18-06	The emission limitation specified in this rule is less stringent than the emission limitation established by 40 CFR Part 60, Subpart OOO. See Section II.A.2.f below.
OAC rule 3745-17-08(B)		
40 CFR Part 60, Subpart OOO		Visible emissions of fugitive dust shall not exceed 10% opacity as a 6-minute average, except as provided by the

rule.

PE shall not exceed 0.8 ton per year.

See Sections II.A.2.g and h below.

The emission limitation specified in this rule is less stringent than the emission limitation established by 40 CFR Part 60, Subpart OOO.

See Section II.A.2.i below.

Visible emissions of fugitive dust shall not exceed 10% opacity as a 6-minute average, except as provided by the rule.

0.8 lb PE/hr
1.6 tons PE/yr

10.8 lbs NO_x/hr
21.6 tons NO_x/yr

0.71 lb SO₂/hr
1.4 tons SO₂/yr

2.33 lb CO/hr
4.7 tons CO/yr

0.86 lb VOCs/hr
1.7 tons VOCs/yr

The requirements of this rule also include compliance with the requirements of 3745-17-07(A).

See Section II.A.2.j below.

Visible particulate emissions shall not exceed 20 percent opacity as a 6-minute average, except as provided by the rule.

The emission limitation specified in this rule is less stringent than the emission limitation established by OAC rule 7345-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a** The annual emission limitations were established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with these limits.
- 2.b** The permittee shall employ best available control measures during all crushing operations 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 maintain the material in a moist condition and ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c** Since this emissions unit is not located in an Appendix A area, pursuant to paragraph (A)(1) of OAC rule 3745-17-08, the requirements of OAC rule 3745-17-08(B) do not apply to the fugitive emissions from this emissions unit.
- 2.d** The annual emission limitations were established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with these limits.
- 2.e** The permittee shall employ best available control measures during all screening operations 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 maintain the material in a moist condition and ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.f** Since this emissions unit is not located in an Appendix A area, pursuant to paragraph (A)(1) of OAC rule 3745-17-08, the requirements of OAC rule 3745-17-08(B) do not apply to the fugitive emissions from this emissions unit.
- 2.g** The annual emission limitations were established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with these limits.
- 2.h** The permittee shall employ best available control measures during all conveying and handling operations 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 maintain the material in a

Emissions Unit ID: **F003**

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

- 2.i** Since this emissions unit is not located in an Appendix A area, pursuant to paragraph (A)(1) of OAC rule 3745-17-08, the requirements of OAC rule 3745-17-08(B) do not apply to the fugitive emissions from this emissions unit.
- 2.j** The hourly emission limitations were established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with these limits.

B. Operational Restrictions

1. Water shall be applied at all points related to the crushing, screening, and conveying and handling operations as necessary to ensure compliance with the visible emission limitations.
2. The diesel engine shall burn only No.2 diesel fuel containing less than 0.5 % sulfur by weight.
3. The diesel engine shall not be operated more than 4,000 hours per year.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform daily checks, when the crushing equipment is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the crushing 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. whether the emissions are representative of normal operations;
 - b. if the emissions are not representative of normal conditions, the cause of the abnormal emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall perform daily checks, when the screening unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the screening unit. 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. whether the emissions are representative of normal operations;
 - b. if the emissions are not representative of normal conditions, the cause of the abnormal emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.
3. The permittee shall perform daily checks, when each conveying and/or handling point is operating and when the weather conditions allow, for any visible fugitive particulate emissions from each conveying and/or 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. whether the emissions are representative of normal operations;
 - b. if the emissions are not representative of normal conditions, the cause of the abnormal emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.
4. The permittee shall maintain records of each fuel shipment for the diesel engine that indicate:
- a. The oil supplier's analysis of percent sulfur content and heat content (BTU/gallon) and
 - b. The quantity (gallons) of each shipment.
5. The permittee shall collect and record, on a monthly basis, the total hours of operation for the diesel engine.

D. Reporting Requirements

1. The permittee shall submit semiannual reports which (a) identify all days during which any abnormal visible fugitive particulate emissions were observed from the crushing operations and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Ohio EPA, Central District Office, by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit semiannual reports which (a) identify all days during which any abnormal visible fugitive particulate emissions were observed from the screening unit and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Ohio EPA, Central District Office, by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit semiannual reports which (a) identify all days during which any abnormal visible fugitive particulate emissions were observed from any conveying and handling operations and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Ohio EPA, Central District Office, by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall report the use of any diesel fuel containing more than 0.5% sulfur by weight. This report shall indicate the cause of the excursion and the corrective action taken to prevent further exceedances. These reports are due within 45 days from the end of the month in which the exceedance occurred.
5. The permittee shall submit deviation (excursion) reports that identify any exceedances of the annual operating hours restriction for the diesel engine. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

E. Testing Requirements

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

- a. Emission Limitation:
PE for the crushing operations shall not exceed 1.8 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the appropriate PM-10 emission factor by the conversion factor of 2.11 to arrive at the appropriate TSP emission factor as specified in USEPA reference document AP-42, 11.19.2 (1/95). This emission factor is then multiplied by the hourly maximum production rate which is multiplied by the total number of hours in a year (8760) and divided by 2,000 pounds per ton to yield an emission limitation in tons per year.

PM-10 emission factor (0.00059) x 2.11 = 0.0012 lb/ton

(0.0012 lb/ton) x (350 tons/hr) x (8760 hrs/yr) x (1 ton /2000 lbs) = 1.8 ton/year PE

- b. Emission Limitation:

Visible emissions of fugitive dust for the crushing operations shall not exceed 15% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Limitation:

The permittee shall conduct, or have conducted, emission testing for the crusher in accordance with the following requirements:

- i. The emission testing shall be conducted within 60 days of issuance of this permit.
- 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 40 CFR Part 60 Subpart OOO: 40 CFR, Part 60, Appendix A, Method 9. Alternative USEPA 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 Central District Office (CDO).

No later than thirty (30) days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the 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 Central District Office's refusal to accept the results of the emission test(s).

Personnel from the 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 emission test(s) shall be signed by the person(s) responsible for the test(s) and submitted to the Central District Office within thirty (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 Central District Office.

- c. Emission Limitation:
PE for the screening operations shall not exceed 0.8 ton per year.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the appropriate PM-10 emission factor by the conversion factor of 2.11 to arrive at the appropriate TSP emission factor as specified in USEPA reference document AP-42, 11.19.2 (1/95). This emission factor is then multiplied by the hourly maximum production rate which is multiplied by the total number of hours in a year (8760) and divided by 2,000 pounds per ton to yield an emission limitation in tons per year.

PM-10 emission factor (0.00084) x 2.1 = 0.0018 lb/ton

(0.0018 lb/ton) x (100 tons/hr) x (8760 hrs/yr) x (1 ton /2000 lbs) = 0.8 ton/year PE

- d. Emission Limitation:
Visible emissions of fugitive dust for the screening operations shall not exceed 10% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Limitation:

The permittee shall conduct, or have conducted, emission testing for the screening operations in accordance with the following requirements:

- i. The emission testing shall be conducted within 60 days of issuance of this permit.
- 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 40 CFR Part 60 Subpart OOO: 40 CFR, Part 60, Appendix A, Method 9. Alternative USEPA 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 Central District Office (CDO).

No later than thirty (30) days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the 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 Central District Office's refusal to accept the results of the emission test(s).

Personnel from the 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 emission test(s) shall be signed by the person(s) responsible for the test(s) and submitted to the Central District Office within thirty (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 Central District Office.

- e. Emission Limitation:
PE for the conveying and handling operations shall not exceed 0.8 ton per year.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the appropriate PM-10 emission factor by the conversion factor of 2.11 to arrive at the appropriate TSP emission factor as specified in USEPA reference document AP-42, 11.19.2 (1/95). This emission factor is then multiplied by the hourly maximum production rate which is multiplied by the total number of hours in a year (8760) and divided by 2,000 pounds per ton to yield an emission limitation in tons per year.

$$\begin{aligned} & \text{PM-10 emission factor (0.000048)} \times 2.1 = 0.0001 \text{ lb/ton} \\ & (0.0001 \text{ lb/ton}) \times (100 \text{ tons/hr}) \times (8760 \text{ hrs/yr}) \times (1 \text{ ton} / 2000 \text{ lbs}) \times (19 \text{ transfer points}) = \\ & = 0.8 \text{ ton/year PE} \end{aligned}$$

- f. Emission Limitation:
Visible emissions of fugitive dust for the conveying and handling operations shall not exceed 10% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Limitation:

The permittee shall conduct, or have conducted, emission testing for the conveying and handling operations in accordance with the following requirements:

- i. The emission testing shall be conducted within 60 days of issuance of this permit.
- 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 40 CFR Part 60 Subpart OOO: 40 CFR, Part 60, Appendix A, Method 9. Alternative USEPA 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 Central District Office (CDO).

No later than thirty (30) days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the 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 Central District Office's refusal to accept the results of the emission test(s).

Personnel from the 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 emission test(s) shall be signed by the person(s) responsible for the test(s) and submitted to the Central District Office within thirty (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 Central District Office.

- g. Emission Limitation:
0.8 lb PE/hr and 1.6 tons PE/yr for the diesel engine

Applicable Compliance Limitation:

Compliance shall be determined by multiplying the maximum gallons per hour of fuel used by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). Then, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 4000 hours per year and divide by 2000 pounds to yield a ton(s) per year value. If required, the permittee shall demonstrate compliance with this emission

limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10). No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

$$(18.0 \text{ gal/hr}) \times (7.05 \text{ lb/gal}) \times (19,300 \text{ Btu/lb}) \times (\text{mmBtu}/1,000,000 \text{ Btu}) = 2.45 \text{ mmBtu/hr}$$

$$(0.31 \text{ lb PE/mmBtu}) \times (2.45 \text{ mmBtu/hr}) = 0.8 \text{ lb PE/hr}$$

$$(0.8 \text{ lb/hr}) \times (4000 \text{ hrs/yr}) \times (\text{lb}/2000 \text{ tons}) = 1.6 \text{ tons PE/yr}$$

- h. Emission Limitation:
10.8 lbs NO_x/hr and 21.6 tons NO_x/yr for the diesel engine

Applicable Compliance Limitation:

Compliance shall be determined by multiplying the maximum gallons per hour of fuel used by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). Then, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 4000 hours per year and divide by 2000 pounds to yield a ton(s) per year value. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10). No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

$$(18.0 \text{ gal/hr}) \times (7.05 \text{ lb/gal}) \times (19,300 \text{ Btu/lb}) \times (\text{mmBtu}/1,000,000 \text{ Btu}) = 2.45 \text{ mmBtu/hr}$$

$$(4.41 \text{ lb NO}_x/\text{mmBtu}) \times (2.45 \text{ mmBtu/hr}) = 10.8 \text{ lbs NO}_x/\text{hr}$$

$$(10.8 \text{ lbs NO}_x/\text{hr}) \times (4000 \text{ hrs/yr}) \times (\text{lb}/2000 \text{ tons}) = 21.6 \text{ tons NO}_x/\text{yr}$$

- i. Emission Limitation:
0.71 lb SO₂/hr and 1.4 tons SO₂/yr for the diesel engine

Applicable Compliance Limitation:

Compliance shall be determined by multiplying the maximum gallons per hour of fuel used by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). Then, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 4000 hours per year and divide by 2000 pounds to yield a ton(s) per year value. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10). No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

$$(18.0 \text{ gal/hr}) \times (7.05 \text{ lb/gal}) \times (19,300 \text{ Btu/lb}) \times (\text{mmBtu}/1,000,000 \text{ Btu}) = 2.45 \text{ mmBtu/hr}$$

$$(0.29 \text{ lb SO}_2/\text{mmBtu}) \times (2.45 \text{ mmBtu/hr}) = 0.71 \text{ lb SO}_2/\text{hr}$$

$$(0.71 \text{ lb SO}_2/\text{hr}) \times (4000 \text{ hrs/yr}) \times (\text{lb}/2000 \text{ tons}) = 1.4 \text{ tons SO}_2/\text{yr}$$

- j. Emission Limitation:
2.33 lb CO/hr and 4.7 tons CO/yr for the diesel engine

Applicable Compliance Limitation:

Compliance shall be determined by multiplying the maximum gallons per hour of fuel used by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). Then, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 4000 hours per year and divide by 2000 pounds to yield a ton(s) per year value. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10). No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

$$(18.0 \text{ gal/hr}) \times (7.05 \text{ lb/gal}) \times (19,300 \text{ Btu/lb}) \times (\text{mmBtu}/1,000,000 \text{ Btu}) = 2.45 \text{ mmBtu/hr}$$

$$(0.95 \text{ lb CO}/\text{mmBtu}) \times (2.45 \text{ mmBtu/hr}) = 2.33 \text{ lbs CO/hr}$$

$$(2.33 \text{ lbs CO/hr}) \times (4000 \text{ hrs/yr}) \times (\text{lb}/2000 \text{ tons}) = 4.7 \text{ tons CO/yr}$$

- k. Emission Limitation:
0.86 lb VOCs/hr and 1.7 tons VOCs/yr

Applicable Compliance Limitation:

Compliance shall be determined by multiplying the maximum gallons per hour of fuel used by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). Then, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 4000 hours per year and divide by 2000 pounds to yield a ton(s) per year value. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10). No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Emissions Unit ID: **F003**

$(18.0 \text{ gal/hr}) \times (7.05 \text{ lb/gal}) \times (19,300 \text{ Btu/lb}) \times (\text{mmBtu}/1,000,000 \text{ Btu}) = 2.45 \text{ mmBtu/hr}$

$(0.35 \text{ lb VOCs/mmBtu}) \times (2.45 \text{ mmBtu/hr}) = 0.86 \text{ lb VOCs/hr}$

$(0.86 \text{ lb VOCs/hr}) \times (4000 \text{ hrs/yr}) \times (\text{lb}/2000 \text{ tons}) = 1.7 \text{ tons VOCs/yr}$

1. Emission Limitation:
Visible particulate emissions for the diesel engine shall not exceed 20 percent opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Limitation:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

1. The following source is subject to the applicable provisions 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>(Subpart)</u>	<u>NSPS Regulation</u>
F001	350 tons per hour primary crusher, screening operations, and conveying and handling	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 the 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. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency

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Tuffcc

PTI A

Issued: 2/12/2002

Emissions Unit ID: **F003**

DAPC - Air Quality Modeling and Planning
P.O. Box 1049
Columbus, OH 43216-1049

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Tuffcc

PTI A

Issued: 2/12/2002

Emissions Unit ID: **F003**

and

Central District Office
Division of Air Pollution Control
3232 Alum Creek Drive
Columbus, OH 43207

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>
F004 - Mineral extraction and overburden removal	OAC rule 3745-31-05(A)(3) OAC rule 3745-17-07(B)	PE shall not exceed 3.3 tons per year. See Sections II.A.2.a and b below. Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average, except as provided by rule.

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 these limits.
- 2.b The permittee shall employ best available control measures during mineral extraction and overburden removal 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 precautionary operating practices/minimization of disturbed land surface, using overburden for reclamation activities, preventing haul vehicle overloading, maintaining a low drop height for the front end loader, maintaining a high moisture content during the loading operations, moving overburden with a bulldozer in lieu of a front end loader when possible, and practicing reclamation/vegetation expeditiously as possible to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

B. Operational Restrictions

1. Water shall be applied 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 material handling is taking place and when the weather conditions allow, for any visible fugitive particulate emissions from any material extraction and handling operations. 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. whether the emissions are representative of normal operations;
 - b. if the emissions are not representative of normal conditions, the cause of the abnormal emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit semiannual reports which (a) identify all days during which any abnormal visible fugitive particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Director of the Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

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:
PE shall not exceed 3.3 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by summing the emissions from overburden removal, overburden loading, and sand and gravel loading operations. The overburden removal emissions are determined by multiplying the maximum capacity of 500,000 tons per year by the emission factor 0.004 lb/ton for overburden removal operations (RACM, Table 2.1.4-3) and dividing by 2,000 pounds per ton. The overburden loading and sand and gravel loading emissions are determined by using the emission factor for storage piles as stated in AP-42, 5th Edition, January 1995, Chapter 13.2.4, Equation (1). This equation

will provide the particulate emission factor for the loading operations in pounds per ton. The associated emission factors shall be multiplied by the appropriate production capacities to obtain the emission rates.

- b. Emission Limitation:
Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

None

Tuffco Sand and Gravel Inc
PTI Application: 01-08445
Issued: 2/12/2002

Facility ID: 0149000122

Emissions Unit ID: **F004**

SIC CODE 1442 SCC CODE 3-05-010-49 EMISSIONS UNIT ID F002
 EMISSIONS UNIT DESCRIPTION aggregate storage piles
 DATE INSTALLED 1991

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					13
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? _____ NESHAP? _____ PSD? _____ OFFSET POLICY? _____

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

Reducing the drop height of front-end loader buckets and maintaining a high moisture content in the piles; compliance with applicable rules and regulations.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No
 OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____

Tuffcc
PTI A
Issued: 2/12/2002

Emissions Unit ID: **F004**

SIC CODE 1442 SCC CODE 3-05-020-06 EMISSIONS UNIT ID F003
 EMISSIONS UNIT DESCRIPTION aggregate processing plant with 350 tons per hour crusher
 DATE INSTALLED 1994

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				0.8 lb/hr for the diesel engine	1.8 for the crusher; 0.8 for the screening operations; 0.8 for the conveying and handling operations; and 1.6 for the diesel engine
PM ₁₀					
Sulfur Dioxide				0.71 lb/hr	1.4
Organic Compounds				0.86 lb/hr	1.7
Nitrogen Oxides				10.8 lbs/hr	21.6
Carbon Monoxide				2.33 lbs/hr	4.7
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? _____ NESHAP? **Subpart OOO** PSD? _____ OFFSET POLICY? _____

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

water application; compliance with applicable rules and regulations.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No
 OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

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 _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____

Tuffco Sand and Gravel Inc
PTI Application: 01-08445
Issued: 2/12/2002

Facility ID: 0149000122

Emissions Unit ID: **F004**

SIC CODE 1442 SCC CODE 3-05-010-30 EMISSIONS UNIT ID F004
 EMISSIONS UNIT DESCRIPTION Mineral extraction and overburden removal
 DATE INSTALLED 1991

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					3.3
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? _____ NESHAP? _____ PSD? _____ OFFSET POLICY? _____

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

Water application; compliance with applicable rules and regulations.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No
 OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

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 _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____