



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
FRANKLIN 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: 01-8020

DATE: October 14, 1999

Morrison Road Development Co., Inc
Steve Geiger
173 James Road
Gahanna, OH 43230

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
DAPC, CDO



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

FINAL PERMIT TO INSTALL 01-8020

Application Number: 01-8020
APS Premise Number: 0125042414
Permit Fee: **\$2800**
Name of Facility: Morrison Road Development Co., Inc
Person to Contact: Steve Geiger
Address: 173 James Road
Gahanna, OH 43230

Location of proposed air contaminant source(s) [emissions unit(s)]:
**477 Claycraft Road
Columbus, Ohio**

Description of proposed emissions unit(s):
**UNPAVED ROADWAYS, STORAGE PILES, MATERIAL HANDLING, ONE CRUSHING/SCREENING
PLANT WITH DIESEL ENGINES.**

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 representative of the Director, upon receipt of a written request and within a reasonable time, any

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information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

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

6. Permit Transfers

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

7. Air Pollution Nuisance

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

8. Termination of Permit to Install

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

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions

and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate 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 prove to be inadequate 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.

14. Construction Compliance Certification

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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>
PM	20.2
NO _x	19.14
CO	4.11
SO _x	1.27
OC	1.54

PART II: SPECIAL TERMS AND CONDITIONS

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>
unpaved roadways and parking areas	OAC rule 3745-31-05	11.55 tons per year particulate emissions.
		no visible particulate emissions 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 A.2.b through A.2.g)
	OAC rule 3745-17-07 (B)(5)	less stringent than the above-mentioned visible emission limitation
	OAC rule 3745-17-08 (B), (B)(2)	less stringent than the above-mentioned control measure requirements

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:

001

002

- 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 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 Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled using appropriate dust control measures for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to a visible emission limitation of no visible particulate emissions except for one minute during any 60-minute period.
- 2.e The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.f Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.g 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.

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 unpaved roadways and parking areas in accordance with the following frequencies:

<u>unpaved roadways</u>	<u>minimum inspection frequency</u>
all	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 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. Emissions Limitation:

Allowable annual particulate emissions from this emissions unit shall not exceed 11.55 tons PM per year.

Applicable Compliance Method

Compliance with the 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). The correction factor listed in AP-42 for situations in which the average vehicle speed is less than 15 miles per hour also should be used with this equation. 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 PM emissions

(in tons per year). The uncontrolled PM emissions are then multiplied by a control efficiency of 50 percent (from watering) to obtain the total annual controlled PM emissions.

2. Emissions Limitation:

No visible particulate emissions except for 3 minutes during any 60-minute period.

Applicable Compliance Method

Compliance with the emission limitation for the unpaved roadways and parking areas 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)(d) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

None

PART II: SPECIAL TERMS AND CONDITIONS [Continued]

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>
Load-in and load-out of storage piles, and wind erosion from storage piles (see Section A.2.a for identification of storage piles).	OAC rule 3745-31-05	0.70 tons per year particulate emissions. 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 A.2.b, A.2.c, A.2.d, A.2.e and A.2.f).
Load-in and load-out of storage piles, and wind erosion from storage piles	OAC rule 3745-17-07 (B)(6)	Less stringent than the above-mentioned visible emission limitation.
Load-in and load-out of storage piles, and wind erosion from storage piles	OAC rule 3745-17-08 (B)(6)	Less stringent than the above-mentioned control measure requirements.

2. Additional Terms and Conditions

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

Crushed asphalt
 310 (gravel)

57's (gravel)
Coarse aggregate

- 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 maintaining the load-in and load-out material(s) with sufficient moisture to ensure compliance. The permittee also will reduce the drop height of front-end loader buckets to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- 2.d The permittee shall employ 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 maintenance of as low a pile(s) height as possible to ensure compliance. The permittee also will maintain the storage piles with sufficient moisture 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 rules 3745-17-08 and 3745-31-05.

B. Operational Restrictions

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Emissions Unit ID: **F002**

None

C. Monitoring and/or Recordkeeping Requirements

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

<u>Storage pile identification</u>	<u>Minimum load-in inspection frequency</u>
All	Daily

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

<u>Storage pile identification</u>	<u>Minimum load-out inspection frequency</u>
All	Daily

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

<u>Storage pile identification</u>	<u>Minimum wind erosion inspection frequency</u>
All	Daily

4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
6. The permittee 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.
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. Emissions Limitation:

Allowable annual particulate emissions from this emissions unit shall not exceed 0.70 tons PM per year.

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

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and load-out operations and wind erosion shall be summed to obtain the total annual uncontrolled PM emissions. The annual PM emissions shall be multiplied by a control efficiency of 30 percent (from maintenance of as low a pile(s) height as possible, sufficient moisture content in the piles, and reducing the drop height of front-end loader buckets).

2. Emissions Limitation

No visible emissions except for one minute in any hour.

Applicable Compliance Method:

Compliance with the visible emission limitations for the 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 [Continued]

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>
Material handling: Conveying from mobile conveyors to storage piles Loading operations with front end loader	OAC rule 3745-31-05	Allowable hourly particulate emissions from this emissions unit shall not exceed 0.20 lbs PM per hour. Allowable annual particulate emissions from this emissions unit shall not exceed 0.90 tons PM per year. Visible particulate emissions shall not exceed 20 percent opacity as a three minute average. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b through A.2.d).
	OAC rule 3745-17-07 (B)(1)	Less stringent than, or equal in stringency to, the above-mentioned visible emission limitation.
	OAC rule 3745-17-08 (B)	Less stringent than, or equal in stringency to, the above-mentioned control measure requirements.

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Emissions Unit ID: **F003**

2. Additional Terms and Conditions

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

Conveying from mobile conveyors to storage piles

Crusher bin and screen bin loading operations with front end loader; aggregate handling by front-end loaders

Truck loading (may include using front end loader)

- 2.b The permittee shall employ best available control measures for the above-identified material handling operation(s) 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 perform the following control measure(s) to ensure compliance:

Material handling operation(s)

Control measure(s)

Conveying from mobile conveyors to storage piles
control dust emissions

Apply water to conveyors to

Crusher bin and screen bin loading
control operations with front end loader;
subsequent

Treat storage piles with water to
dust emissions during

aggregate handling by front-end loaders
operations; reducing the drop height of front-end loader buckets

handling and unloading
operations; reducing the drop height of front-end loader buckets

Truck loading

Treat storage piles with water to
control (may include using front end loader)
dust emissions during subsequent handling
and unloading operations; reducing the drop
height of front-end loader buckets

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

- 2.c For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee

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Emissions Unit ID: **F003**

determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that

the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

- 2.d Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08 and 3745-31-05.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

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

<u>Material handling operation(s)</u>	<u>Minimum inspection frequency</u>
All	Daily

2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
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:
- the date and reason any required inspection was not performed;
 - the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - the dates the control measure(s) was (were) implemented; and,

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

The information in 4.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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; and,
 - b. each instance when a control measure, that was to be performed 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. Emissions Limitation:

Allowable hourly particulate emissions from this emissions unit shall not exceed 0.20 lbs PM per hour.

Applicable Compliance Method:

Compliance with the emissions limitation for the material handling operations identified above shall be determined by using the emission factor for aggregate handling and storage piles as stated in AP-42, 5th Edition, January 1995, Chapter 13.2.4, Equation (1). The emission factors shall be multiplied by the appropriate production capacities to obtain the uncontrolled emission rates. The uncontrolled emissions shall be multiplied by a control efficiency of 30 percent (from watering and reducing the drop height of front-end loader buckets) to obtain the controlled emission rates. The controlled particulate emissions from the material handling operations shall be summed to obtain the total hourly PM emissions.

2. Emissions Limitation:

Allowable annual particulate emissions from this emissions unit shall not exceed 0.90 tons PM per

year.

Applicable Compliance Method:

Compliance with the emission limitation for the material handling operations identified above shall be determined by using the emission factor for aggregate handling and storage piles as stated in AP-42, 5th Edition, January 1995, Chapter 13.2.4, Equation (1). The emission factors shall be multiplied by the appropriate production capacities to obtain the uncontrolled emission rates. The uncontrolled emissions shall be multiplied by the control efficiencies as

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listed in E.1. to obtain the controlled emission rates. The controlled particulate emissions from the material handling operations shall be summed to obtain the total hourly PM emissions. The total hourly PM emissions shall be multiplied by 8760 hours and converted to tons to obtain the total annual PM emissions.

3. Emissions Limitation:

Visible particulate emissions shall not exceed 20 percent opacity as a three minute average.

Applicable Compliance Method:

Compliance with the emissions limitation for the material handling operations identified above shall be determined in accordance with Test Method 9 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)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

None

PART II: SPECIAL TERMS AND CONDITIONS [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, <u>and/or Equipment</u>		
60 tons per hour portable crushing and screening plant	One 95 hp diesel engine used with the screening plant	One 95 hp diesel engine used with the crusher

Applicable Rules/Requirements

OAC rule 3745-31-05

OAC rule 3745-15-07 (A)(1)(a)

OAC rule 3745-15-07 (A)(1)(a)

OAC rule 3745-17-11 (B)(5)(a)

OAC rule 3745-17-07 (B)(1)

OAC rule 3745-17-11 (B)(5)(a)

OAC rule 3745-18-06 (G)

OAC rule 3745-17-08 (B)

OAC rule 3745-18-06 (G)

OAC rule 3745-17-11

OAC rule 3745-31-05

OAC rule 3745-31-05

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Applicable Emissions Limitations/Control Measures		
Allowable hourly particulate emissions from this emissions unit shall not exceed 1.30 lbs PM per hour.	following rates: Nitrogen Oxides: 2.23 pounds per hour, 9.77 tons per year;	2.14 pounds per hour, 9.37 tons per year;
Allowable annual particulate emissions from this emissions unit shall not exceed 5.69 tons PM per year.	Carbon Monoxide: 0.48 pounds per hour, 2.10 tons per year;	Carbon Monoxide: 0.46 pounds per hour, 2.01 tons per year;
Visible particulate emissions shall not exceed 20 percent opacity as a three minute average.	Sulfur Dioxide: 0.15 pounds per hour, 0.66 tons per year;	Sulfur Dioxide: 0.14 pounds per hour, 0.61 tons per year;
Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See A.2.a and B.1 below.	Particulate Matter: 0.16 pounds per hour, 0.70 tons per year;	Particulate Matter: 0.15 pounds per hour, 0.66 tons per year;
Less stringent than, or equal in stringency to, the above-mentioned visible emission limitation.	Organic Compounds: 0.18 pounds per hour, 0.79 tons per year. See A.2.b and B.2 below.	Organic Compounds: 0.17 pounds per hour, 0.75 tons per year. See A.2.b and B.2 below.
Less stringent than, or equal in stringency to, the above-mentioned control measure requirements.	Visible particulate emissions shall not exceed 20% opacity as a six minute average except as provided by rule.	Visible particulate emissions shall not exceed 20% opacity as a six minute average except as provided by rule.
Less stringent than the above-mentioned particulate emission limitation.	Particulate emissions shall not exceed 0.310 lb per million Btu of actual heat input.	Particulate emissions shall not exceed 0.310 lb per million Btu of actual heat input.
Emissions shall not exceed the	Sulfur dioxide emissions shall not exceed 0.5 pounds of sulfur dioxide per MM Btu actual heat input.	Sulfur dioxide emissions shall not exceed 0.5 pounds of sulfur dioxide per MM Btu actual heat input.
	Emissions shall not exceed the following rates:	
	Nitrogen Oxides:	

2. Additional Terms and Conditions

- 2.a** The pounds per hour and annual tons per year PM limits 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 pounds per hour and annual tons per year NOX, CO, SO₂, PM, and OC limits 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. The facility shall employ a water spraying system to control particulate emissions from emissions unit F004 whenever this emissions unit is in operation.
2. This emissions unit shall be operated with diesel fuel with a sulfur content less than 0.5% by weight.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records for the sulfur content of the fuel consumed in this emissions unit.

D. Reporting Requirements

1. In accordance with the paragraph A.2.b of the General Terms and Conditions, the permittee shall submit deviation (excursion) reports which identify each day when a fuel other than low sulfur diesel fuel was burned in this emissions unit.

E. Testing Requirements

1. Emissions Limitation:

Allowable hourly particulate emissions from this emissions unit shall not exceed 1.30 lbs PM per hour.

Applicable Compliance Method:

Compliance with the emissions limitation for the crushing and screening plant identified

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above shall be determined by using the emission factor listed in AP-42, 5th Edition, January 1995, Chapter 11.19.2, Table 11.19.2-2. The emission factor for primary crushing listed in this table is 0.00070 pounds PM per ton of material throughput. The emission factor shall be multiplied by the appropriate production capacities to obtain the uncontrolled emission rates. The uncontrolled emissions shall be multiplied by a control efficiency of 70 percent (from watering) to obtain the controlled PM emissions. For the screening operations, an emission factor of 0.16 pounds PM per ton of material throughput shall be used (this emission factor was provided by the consultant preparing the PTI). This screening operation emission factor shall be multiplied by the appropriate production capacities to obtain the uncontrolled emission rates. The uncontrolled emissions shall be multiplied by a control efficiency of 90 percent (from watering) to obtain the controlled PM emissions. The controlled PM emissions from the crushing and screening operations shall be summed to obtain the total hourly PM emissions for this emissions unit.

2. Emissions Limitation:

Allowable annual particulate emissions from this emissions unit shall not exceed 5.69 tons PM per year.

Applicable Compliance Method:

Compliance with the emissions limitation for the crushing and screening plant identified above shall be determined by using the hourly particulate emissions rate as calculated above in E.1. The hourly particulate emissions rate shall be multiplied by 8760 hours and converted to tons to obtain the annual PM emissions.

3. Emissions Limitation:

Visible particulate emissions shall not exceed 20 percent opacity as a three minute average.

Applicable Compliance Method:

If required, compliance with the emissions limitation for the crushing and screening plant identified above shall be determined in accordance with Test Method 9 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)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

4. Emissions Limitation

Emissions from the diesel engine for the screening plant shall not exceed the following rates:

Nitrogen Oxides:	2.23 pounds per hour, 9.77 tons per year;
Carbon Monoxide:	0.48 pounds per hour, 2.10 tons per year;
Sulfur Dioxide:	0.15 pounds per hour, 0.66 tons per year;
Particulate Matter:	0.16 pounds per hour, 0.70 tons per year;
Organic Compounds:	0.18 pounds per hour, 0.79 tons per year.

Applicable Compliance Method

Compliance with the emissions limitation for the diesel engine identified above shall be determined by using the emission factors from AP-42, 5th Edition (October 1996), Table 3.3-1, "Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines." The hourly emissions rate shall be multiplied by 8760 hours and converted to tons to obtain the annual emissions.

5. Emissions Limitation

Emissions from the diesel engine for the crusher shall not exceed the following rates:

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Nitrogen Oxides: 2.14 pounds per hour, 9.37 tons per year;
Carbon Monoxide: 0.46 pounds per hour, 2.01 tons per year;
Sulfur Dioxide: 0.14 pounds per hour, 0.61 tons per year;
Particulate Matter: 0.15 pounds per hour, 0.66 tons per year;
Organic Compounds: 0.17 pounds per hour, 0.75 tons per year.

Applicable Compliance Method

Compliance with the emissions limitation for the diesel engine identified above shall be determined by using the emission factors from AP-42, 5th Edition (October 1996), Table 3.3-1, "Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines." The hourly emissions rate shall be multiplied by 8760 hours and converted to tons to obtain the annual emissions.

6.

Emissions Limitation:

Visible particulate emissions shall not exceed 20 percent opacity as a three minute average.

Applicable Compliance Method:

If required, compliance with the emissions limitation for the diesel engines identified above shall be determined in accordance with Test Method 9 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)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

7. Emissions Limitation

Particulate emissions shall not exceed 0.310 lb per million Btu of actual heat input.

Applicable Compliance Method

Compliance with the emissions limitation for the diesel engines identified above shall be determined by using the emission factor for particulates from AP-42, 5th Edition (October 1996), Table 3.3-1, "Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines." This emission factor is 0.31 lb particulate/MMBtu (fuel input) for diesel fuel.

8. Emissions Limitation

Sulfur dioxide emissions shall not exceed 0.5 pounds of sulfur dioxide per MM Btu actual heat input.

Applicable Compliance Method

Compliance with the emissions limitation for the diesel engines identified above shall be determined by using the emission factor for SOX from AP-42, 5th Edition (October 1996), Table 3.3-1, "Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines." This emission factor is 0.29 lb SOX/MMBtu (fuel input) for diesel fuel.

F. Miscellaneous Requirements

None