



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center  
122 S. Front Street  
Columbus, OH 43215

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

Mailing Address:

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

**RE: FINAL PERMIT TO INSTALL  
RICHLAND COUNTY  
Application No: 03-16178  
Fac ID: 0370950001**

**CERTIFIED MAIL**

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

**DATE: 9/16/2004**

John Garber Materials, Inc.  
Uwe Seeler  
26673 Jelloway Road  
Danville, OH 43014

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  
309 South Fourth Street, Room 222  
Columbus, Ohio 43215

Sincerely,

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

cc: USEPA

NWDO



**Permit To Install  
Terms and Conditions**

**Issue Date: 9/16/2004  
Effective Date: 9/16/2004**

**FINAL PERMIT TO INSTALL 03-16178**

Application Number: 03-16178  
Facility ID: 0370950001  
Permit Fee: **\$2600**  
Name of Facility: John Garber Materials, Inc.  
Person to Contact: Uwe Seeler  
Address: 26673 Jelloway Road  
Danville, OH 43014

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**1143 Kochheiser Road  
Mansfield, Ohio**

Description of proposed emissions unit(s):  
**Portable aggregate processing plant.**

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**

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 information that may

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

**5. Scheduled Maintenance/Malfunction Reporting**

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

**6. Permit Transfers**

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

**7. Air Pollution Nuisance**

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

**8. Termination of Permit to Install**

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

**9. Construction of New Sources(s)**

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

and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

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

**10. Public Disclosure**

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

**11. Applicability**

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

**12. Best Available Technology**

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

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

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

**14. Construction Compliance Certification**

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

**15. Fees**

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

**B. Permit to Install Summary of Allowable Emissions**

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

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

<u>Pollutant</u>	<u>Tons Per Year</u>
Fugitive PE	7.63
Stack PE	0.92
NOx	13.05
CO	2.8
SO <sub>2</sub>	0.88

**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 Measure</u>
F001 - Unpaved roadways and parking areas	OAC rule 3745-31-05(A)(3)	3.37 tons fugitive particulate emissions (PE)/yr  There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed three minutes during any 60-minute observation period.  Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.b through A.2.g)
	OAC rule 3745-17-07(B)	See A.2.h
	OAC rule 3745-17-08(B)	See A.2.h

**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:  
 All Unpaved Roadways and Parking Areas

- 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 employ speed reduction, good housekeeping practices and watering 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.
- 2.h** The unpaved roadways and parking areas are associated with the portable screening system (emissions unit P901) permitted under facility ID 0370950001. The emission limitation of 3.37 tons fugitive PE/yr represents the maximum emissions which will be emitted from the unpaved roadways and parking areas for any proposed site for relocation of the portable screening system.

The roadways are associated with a portable source and are applicable to the requirements of OAC rule 3745-17-07(B) and 3745-17-08(B) when located in an "Appendix A" area as identified in OAC rule 3745-17-08. The emission limitations and control requirements established by OAC rule 3745-17-07 (B) and OAC rule 3745-17-08(B) are less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3).

**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 and Parking Areas</u>	<u>Minimum Inspection Frequency</u>
All	Once During Each Day of Operation

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

- a. Emission Limitation: 3.37 tons fugitive PE/yr

Applicable Compliance Method: This emission limitation was established by applying a 95% control efficiency for use of best available control measures to uncontrolled emissions\* generated from unpaved roadways/parking areas and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the requirements of this permit to apply best available control measures, compliance with the ton per year PE limitation will be assumed.

\* Uncontrolled emissions were determined by using the maximum vehicle miles traveled (VMT) and emission factors below:

- i. service road: 6.70 lbs PE/VMT [AP-42 Section 13.2.2.2 (12/03)] & 10,000 VMT
- ii. plant road: 6.70 lbs PE/VMT [AP-42 Section 13.2.2.2 (12/03)] & 10,000 VMT
- iii. parking areas: 2.94 lbs PE/VMT [AP-42 Section 13.2.2.2 (12/03)] & 150 VMT

- b. Emission Limitation: There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed three minutes during any 60-minute observation period.

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

**John Garber Materials, Inc.**

**PTI Application: 03-16178**

**Issued: 9/16/2004**

**Facility ID: 0370950001**

**Emissions Unit ID: F001**

**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 - Storage piles	OAC rule 3745-31-05(A)(3)	0.46 tons fugitive particulate emissions (PE)/yr
load-in and load-out of storage piles (see Section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3)	No visible particulate emissions except for a period of time not to exceed one minute during any 60-minute observation period.  Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.b, A.2.c and A.2.f)
	OAC rule 3745-17-07(B)	See A.2.g
	OAC rule 3745-17-08(B)	See A.2.g
wind erosion from storage piles (see Section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3)	No visible particulate emissions except for a period of time not to exceed one minute during any 60-minute observation period.  Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.d through A.2.f)
	OAC rule 3745-17-07(B)	See A.2.g
	OAC rule 3745-17-08(B)	See A.2.g

**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:

Bank-Run Sand and Gravel Storage Piles and Processed Sand and Gravel Storage 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 watering and low drop heights from front end loaders 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 measures 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 measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during any such operation until further observation confirms that use of the measures 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 watering and maintenance of as low a pile height as possible 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 measures 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 measures are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measures 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** The storage piles are associated with the portable screening system (emissions unit P901) permitted under facility ID 0370950001. The emission limitation of 0.46 tons fugitive PE per year represents the maximum emissions which will be emitted from the storage piles associated with the portable screening system.

The storage piles are associated with a portable source and are applicable to the requirements of OAC rule 3745-17-07(B) and 3745-17-08(B) when located in an "Appendix A" area as

identified in OAC rule 3745-17-08. The emission limitations and control requirements established by OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B) are less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3).

**B. Operational Restrictions**

None

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

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

<u>Storage Pile Identification</u>	<u>Minimum Load-In Inspection Frequency</u>
All Storage Piles	Once During Each Day of Operation

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 Storage Piles	Once During Each Day of Operation

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 Storage Piles	Once During Each Day of Operation

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. Compliance with the emission limitations in Section A.1. of the terms and conditions of this permit shall be determined in accordance with the following methods:
  - a. Emission Limitation: 0.46 tons fugitive PE/yr

Applicable Compliance Method: The emission limitation was established by combining the emissions from load-in and load-out operations and from wind erosion from each storage pile as listed in the permittee's application and applying a 95% control efficiency for use of best available control measures. Load-in and load-out operation emissions are based on a maximum load-in and load-out rate of 350,000 tons per year of Bank-Run sand and gravel

and 350,000 tons per year of processed sand and gravel. Wind erosion emissions are based on a maximum storage pile surface area of 0.25 acres as listed in the permit application:

The emission rate was determined as follows:

- i. Load-in - emissions associated with load-in operations were established by multiplying the maximum load-in rate of 350,000 tons per year of Bank-Run sand and gravel and 350,000 tons per year of processed sand and gravel by the appropriate emission factor from AP-42 section 13.2.4.3 (1/95) [0.025 lb PE/ton product], applying a 95% control efficiency and dividing by 2000 lbs/ton. (0.044 ton fugitive PE/yr)
- ii. Load-out - emissions associated with load-out operations were established by multiplying the maximum load-in rate of 350,000 tons per year of Bank-Run sand and gravel and 350,000 tons per year of processed sand and gravel by the appropriate emission factor from AP-42 section 13.2.4.3 (1/95) [0.025 lb PE/ton product], applying a 95% control efficiency and dividing by 2000 lbs/ton. (0.044 ton fugitive PE/yr)
- iii. Wind erosion - emissions were established by multiplying a maximum combined storage pile surface area of 1 acre for Bank-Run sand and gravel and 3 acres for processed sand and gravel, the appropriate emission factor from USEPA's Control of Open Fugitive Dust Sources (9/88) [14.68 lbs PE/day/acre of Bank-Run sand and gravel and 8.68 lbs PE/acre/day of processed sand and gravel], a maximum operating schedule of 365 days per year and dividing by 2000 and applying a 95% control efficiency. (0.37 ton PE/yr)

Therefore, provided compliance is shown with the requirements of this permit to apply best available control measures, compliance with the ton per year PE limitation will be assumed.

- b. Emission Limitation: No visible particulate emissions except for a period of time not to exceed one minute during any 60-minute observation period from load-in and load-out of the storage piles

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, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

- c. Emission Limitation: No visible particulate emissions except for a period of time not to exceed one minute during any 60-minute observation period from wind erosion

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, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

**F. Miscellaneous Requirements**

None

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

**A. Applicable Emissions Limitations and/or Control Requirements**

- 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>
P901 - 250 tons per hour portable screening system and associated material handling operations	OAC rule 3745-31-05(A)(3)	3.04 tons fugitive particulate emissions (PE)/yr  20% opacity, as a 3-minute average from front-end loader dumping into the Grizzly feeder  10% opacity, as a 3-minute average from the screening system  10% opacity, as a 3-minute average from the transfer points  Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.a through A.2.d)
	OAC rule 3745-17-07(B)	See A.2.e
	OAC rule 3745-17-08(B)	See A.2.f
	40 CFR, Part 60, Subpart OOO	See A.2.f
	OAC rule 3745-31-05(A)(3)	See A.2.g
96 hp fuel oil number 2 fired generator used to power portable screening system and associated material handling operations	OAC rule 3745-31-05(A)(3)	0.92 tons PE/yr (stack emissions)  0.20 lbs SO <sub>2</sub> /hr, 0.88 tons SO <sub>2</sub> /yr  0.65 lb CO/hr, 2.85 tons CO/yr  2.98 lbs NO <sub>x</sub> , 13.05 tons NO <sub>x</sub> /yr

	Visible particulate emissions shall not exceed 10% opacity as a 6-minute average, except during start-up and shutdown
	See A.2.e
	See A.2.h
OAC rule 3745-17-07(A)	
OAC rule 3745-17-11(B)(5)(a)	0.310 lb PE/mmBTU of actual heat input
	See A.2.i
OAC rule 3745-18-06(G)	
	See A.2.j
OAC rule 3745-21-07(B)	
	See A.2.j
OAC rule 3745-23-06(B)	
	See A.2.j
OAC rule 3745-21-08(B)	

**2. Additional Terms and Conditions**

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

- Front-End Loader to FG1 Grizzly Feeder
- FG1 Grizzly Feeder to C1 Conveyor
- C1 Conveyor to C2 Conveyor
- C2 Conveyor to S1 Screen
- S1 Screen
- S1 Screen to C3 Conveyor
- S1 Screen to C4 Conveyor
- C4 Conveyor to C5 Conveyor
- S1 Screen to C6 Conveyor
- C6 Conveyor to C7 Conveyor

**2.b** The permittee shall employ best available control measures for the above-identified screening and material handling operations 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 Operations

Front-End Loader to FG1 Grizzly Feeder

Control Measures

Watering

FG1 Grizzly Feeder to C1 Conveyor	Watering
C1 Conveyor to C2 Conveyor	Watering
C2 Conveyor to S1 Screen	Watering
S1 Screen	Watering
S1 Screen to C3 Conveyor	Watering
S1 Screen to C4 Conveyor	Watering
C4 Conveyor to C5 Conveyor	Watering
S1 Screen to C6 Conveyor	Watering
C6 Conveyor to C7 Conveyor	Watering

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

- 2.c** For each screening and material handling operation that is not adequately enclosed, the above-identified control measures shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during the operation of the material handling operations until further observation confirms that use of the control measures is unnecessary.
- 2.d** 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.e** The requirements of this rule also include compliance with OAC rule 3745-17-07(A), OAC rule 3745-17-11(B)(5)(a), OAC rule 3745-18-06(G), OAC rule 3745-21-07(B), OAC rule 3745-21-08(B), and OAC rule 3745-23-06(B).
- 2.f** This emissions unit is a portable source and is applicable to the requirements of OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B) when located in an "Appendix A" area as identified in OAC rule 3745-17-08. The emission limitations and control requirements established by OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B) are equivalent to or less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3).

When the emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08, this emission unit is exempt from the requirements of OAC rule 3745-17-08(B) pursuant to OAC rule 3745-17-08(A) and is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B)(1) pursuant to OAC rule 3745-17-07(B)(11)(e).

- 2.g** This emission unit is exempt from the requirements pursuant to 40 CFR 60.670(a)(2).
- 2.h** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

- 2.i** This emissions unit is exempt from the requirements of OAC rule 3745-18-06(G) pursuant to OAC rule 3745-18-06(B).
  
- 2.j** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06 (B) and OAC rule 3745-21-07(B) and the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05 (A)(3) in this permit to install.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

**B. Operational Restrictions**

- 1. The oil combusted in this emissions unit shall only be distillate oil (fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78, 89, 90, 92, 96, or 98, "Standard Specification for Fuel Oils"). The sulfur content of the distillate oil shall contain no more than 0.5 weight percent sulfur.

**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>Screening/Material Handling Operations</u>	<u>Minimum Inspection Frequency</u>
All	Once During Each Day of Operation

- 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:
  - a. the date and reason any required inspection was not performed;

- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control 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.

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.

- 5. The permittee shall use records of fuel supplier certification to demonstrate compliance with the operational restriction in section B.1. Records of fuel supplier certification shall include the following information:
  - i. the name of the oil supplier; and
  - ii. a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in B.1 above.

**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.

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

- 2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel was burned in this emissions unit which did not comply with the operational restriction in B.1. Each report shall be submitted within 30 days after the deviation occurs.

**E. Testing Requirements**

- 1. Compliance with the emissions limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitation: 3.37 tons fugitive PE/yr

Applicable Compliance Method: The emission limitation is based on a maximum throughput rate of 250 tons per hour, the following controlled emission factors from AP-42:

0.0000336 lb PE/ton (Section 11.19.2 -9/95) for the Front End Loader dumping into the Grizzly feeder, 0.001764 lb PE/ton (Section 11.19.2 - 9/95) for the screen and 0.0001008 lb PE/ton (Section 11.19.2 - 9/95) for the ten transfer points, and a maximum operating schedule of 8760 hrs/yr.

Therefore, provided compliance is shown with the requirements of this permit to apply best available control measures, compliance with the ton per year PE limitation will be assumed.

- b. Emission Limitation: 20% opacity, as a 3-minute average from front-end loader dumping into grizzly feeder

Applicable Compliance Method: If required, compliance shall be demonstrated using 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, 2002, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

- c. Emission Limitation: 10% opacity, as a 3-minute average from the screening system

Applicable Compliance Method: If required, compliance shall be demonstrated using 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, 2002, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

- d. Emission Limitation: 10% opacity, as a 3-minute average from the transfer points

Applicable Compliance Method: If required, compliance shall be demonstrated using 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, 2002, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

- e. Emission Limitation: 0.92 tons PE/yr (stack emissions)

Applicable Compliance Method: The emission limitation is based on the emission unit's potential-to-emit\*. Therefore, no recordkeeping, deviation reporting or compliance method calculations are required to demonstrate compliance with this limitation.

\*The potential-to-emit for this emissions unit is based on a maximum capacity of 96 hp multiplied by the AP-42 emission factor of 0.00220 lb PE/hp-hr (Section 3.3 - 10/96), a maximum operating schedule of 8760 hrs/yr divided by 2000 lbs/ton.

- f. Emission Limitation: 0.20 lb SO<sub>2</sub>/hr, 0.88 tons SO<sub>2</sub>/yr

Applicable Compliance Method: The hourly emission limitation is based on the emission unit's potential-to-emit\*. Therefore, no hourly recordkeeping, deviation reporting or compliance method calculations are required to demonstrate compliance with this limitation. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4 and 6 of 40 CFR, Part 60, Appendix A.

\*The potential-to-emit is based on a maximum capacity of 96 hp multiplied by the AP-42 emission factor of 0.00205 lb SO<sub>2</sub>/hp-hr (Section 3.3 - 10/96).

The tons/yr emission limitation was developed by multiplying the lb/hr emission limitation by a maximum operating schedule of 8760 hrs/yr divided by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitation, compliance with the annual limitation is assumed.

- g. Emission Limitation: 0.65 lb CO/hr, 2.85 tons CO/yr

Applicable Compliance Method: The hourly emission limitation is based on the emission unit's potential-to-emit\*. Therefore, no hourly recordkeeping, deviation reporting or compliance method calculations are required to demonstrate compliance with this limitation. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4 and 10 of 40 CFR, Part 60, Appendix A.

\*The potential-to-emit is based on a maximum capacity of 96 hp multiplied by the AP-42 emission factor of 0.00668 lb CO/hp-hr (Section 3.3 - 10/96).

The tons/yr emission limitation was developed by multiplying the lb/hr emission limitation by a maximum operating schedule of 8760 hrs/yr divided by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitation, compliance with the annual limitation is assumed.

- h. Emission Limitation: 2.98 lbs NO<sub>x</sub>/hr, 13.05 tons NO<sub>x</sub>/yr

Applicable Compliance Method: The hourly emission limitation is based on the emission unit's potential-to-emit\*. Therefore, no hourly recordkeeping, deviation reporting or compliance method calculations are required to demonstrate compliance with this limitation. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4 and 7 of 40 CFR, Part 60, Appendix A.

\*The potential-to-emit is based on a maximum capacity of 96 hp multiplied by the AP-42 emission factor of 0.031 lb NO<sub>x</sub>/hp-hr (Section 3.3 - 10/96).

The tons/yr emission limitation was developed by multiplying the lb/hr emission limitation by a maximum operating schedule of 8760 hrs/yr divided by 2000 lbs/ton. Therefore,

provided compliance is shown with the hourly emission limitation, compliance with the annual limitation is assumed.

- i. Emission Limitation: Visible particulate emissions shall not exceed 10% opacity as a 6-minute average, except during start-up and shutdown

Applicable Compliance Method: If required, compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A.

- j. Emission Limitation: 0.310 lb PE/mmBTU of actual heat input

Applicable Compliance Method: The lbs PE/mmBtu emission limitation represents the potential to emit\* for this emissions unit. Therefore no hourly recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

\*Potential to emit was determined using AP-42, Chapter 3.3, Table 3.3-1 (revised 10/96).

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 - 5 of 40 CFR Part 60, Appendix A.

**F. Miscellaneous Requirements**

None