



State of Ohio Environmental Protection Agency

Street Address:

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P.O. Box 1049
Columbus, OH 43216-1049

**RE: FINAL PERMIT TO INSTALL
PORTAGE COUNTY
Application No: 16-02235**

CERTIFIED MAIL

	TOXIC REVIEW
	PSD
	SYNTHETIC MINOR
	CEMS
	MACT
40 CFR Part 60, subpart 000	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

DATE: 7/16/2002

Oscar Brugmann Sand and Gravel
Roy Brugmann
3828 Dudley Road
Mantua, OH 44255

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

ARAQMD



**Permit To Install
Terms and Conditions**

**Issue Date: 7/16/2002
Effective Date: 7/16/2002**

FINAL PERMIT TO INSTALL 16-02235

Application Number: 16-02235
APS Premise Number: 1667050040
Permit Fee: **\$1400**
Name of Facility: Oscar Brugmann Sand and Gravel
Person to Contact: Roy Brugmann
Address: 3828 Dudley Road
Mantua, OH 44255

Location of proposed air contaminant source(s) [emissions unit(s)]:
**3828 Dudley Road
Mantua, Ohio**

Description of proposed emissions unit(s):
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 Related to Monitoring and Record keeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or record keeping 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 record keeping 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 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

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and

conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

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

B. Permit to Install Summary of Allowable Emissions

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

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

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	14.07
NO _x	18.18
CO	3.90
SO _x	1.18
OC	1.45

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>
F009 - Aggregate processing plant 5.	OAC rule 3745-31-05(A)(3)	5.3 tons of particulate emissions (PE) per year
Simplicity 2D-5X10 screen	40 CFR Part 60, subpart OOO	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, subpart OOO.
Shop built 2D-5X16 washing screen	40 CFR Part 60, subpart OOO	No permittee shall cause to be discharged into the atmosphere from any screening operation any fugitive emissions which exhibit greater than 10 percent opacity (see Section A.2.g).
Eagle wet sand screw	OAC rule 3745-31-05(A)(3)	No permittee shall cause to be discharged into the atmosphere any visible emissions from wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill, or storage bin (see Section A.2.g).
Material handling operations: conveying, transfer points, and load-in to the Grayson grizzle feed hopper	OAC rule 3745-31-05(A)(3)	There shall be no visible particulate emissions from the wet sand screw. 20% opacity, as a 3-minute average for truck dumping into the feed hopper best available control measures that are sufficient to minimize or eliminate

40 CFR Part 60, subpart OOO

visible emissions of fugitive dust (see Sections A.2.d through A.2.f)

No permittee shall cause to be discharged into the atmosphere from any transfer point any fugitive emissions which exhibit greater than 10 percent opacity (See sections A.2.c and A.2.g below.).

No permittee shall cause to be discharged into the atmosphere any visible emissions from wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill, or storage bin (See sections A.2.c and A.2.g below.).

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

4.15 pounds of nitrogen oxides (NO_x) per hour and 18.18 tons of NO_x per year

30306 Caterpillar 369 HP diesel-fired generator - 0.94 MM Btu/hr

0.89 pound of carbon monoxide (CO) per hour and 3.90 tons of CO per year

0.27 pound of sulfur oxides (SO_x) per hour and 1.18 tons of SO_x per year

0.29 pound of PE per hour and 1.27 tons of PE per year

0.33 pound of organic compounds (OC) per hour and 1.45 tons of OC per year

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-11(B)(5)(a).

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

Visible particulate emissions from the diesel generator's exhaust stack shall

	not exceed twenty percent opacity as a six-minute average, except as provided by rule.
OAC rule 3745-17-11(B)(5)(a)	The particulate emissions from the diesel generator's exhaust shall not exceed 0.310 pound per million Btu of actual heat input.
OAC rule 3745-18-06(B)	Stationary internal combustion engines which have rated heat input capacities equal to, or less than, ten MM Btu per hour total rated capacity are exempt from paragraphs (D), (F), and (G) of OAC rule 3745-18-06 and from rules 3745-18-07 to 3745-18-94 of the Administrative Code.
OAC rule 3745-21-07(B)	See A.2.i below.
OAC rule 3745-21-08(B)	See A.2.i below.
OAC rule 3745-23-06(B)	See A.2.i below.

2. Additional Terms and Conditions

2.a This facility is not located within an “Appendix A” area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A) and OAC rule 3745-17-07(B)(11)(e), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B) and OAC rule 3745-17-07(B).

2.b The permittee shall employ reasonably available control measures to minimize or eliminate visible emissions of fugitive dust from emissions unit F009. If the inherent moisture in the sand and gravel is not sufficient to comply with the opacity restrictions of this permit, the permittee shall install equipment to apply water, or any other suitable dust suppressant, at appropriate locations in the production line.

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

<u>Emission Point</u>	<u>Equipment Type</u>	<u>Opacity Limit</u>	<u>Regulatory Basis for Limit</u>
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truck dumping into Grayson feed hopper F1	front-end loaders/ /trucks/feed hopper	20% as 3-minute average	OAC rule 3745-31-05(A)(3)
Grayson feed hopper F1 to belt conveyor C1	transfer point	10%	40 CFR Part 60, subpart OOO
belt conveyor C1 to belt conveyor C2	transfer point	10%	40 CFR Part 60, subpart OOO
belt conveyor C2 to Simplicity screen S1	transfer point	10%	40 CFR Part 60, subpart OOO
Simplicity screen S1 to belt conveyor C3	transfer point	10%	40 CFR Part 60, subpart OOO
belt conveyor C3 to belt conveyor C4	transfer point	10%	40 CFR Part 60, subpart OOO
Simplicity screen S1 to belt conveyor C5	transfer point	10%	40 CFR Part 60, subpart OOO
belt conveyor C5 to shop built washing screen S2	transfer point	10%	40 CFR Part 60, subpart OOO
shop built washing screen S2 to belt conveyor C6	transfer point	no visible particulate emissions	40 CFR Part 60, subpart OOO
shop built washing screen S2 to belt conveyor C7	transfer point	no visible particulate emissions	40 CFR Part 60, subpart OOO
shop built washing screen S2 to Eagle wet sand screw WSS1	transfer point	no visible particulate emissions	40 CFR Part 60, subpart OOO
Eagle wet sand screw WSS1 to belt conveyor C8	transfer point	no visible particulate emissions	40 CFR Part 60, subpart OOO
belt conveyor C8 to	transfer point	no visible particulate	40 CFR Part 60,

belt conveyor C9

emissions

subpart OOO

2.d 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)

truck dumping into Grayson feed hopper

minimize free fall distance and maintain a high moisture content for the material being processed

transfer points

maintain a high moisture content for the material being processed

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

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

2.f 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 rule 3745-31-05.

2.g Compliance with the opacity limitations shall have been achieved on and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup.

2.h The 5.3 tons of PE per year limitation was established to reflect the potential to emit for this emission unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

2.i The permittee has satisfied the "best available control technology techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) and the "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-07(B) and 3745-23-06(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.

B. Operational Restrictions

None

C. Monitoring and/or Record keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions of fugitive dust from the Simplicity screen, the shop built screen, and the Eagle wet sand screw. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. For the Simplicity screen:

- i. The color of the emissions;
- ii. Whether the emissions are representative of normal operations;
- iii. If the emissions are not representative of normal operations, the cause of the abnormal emissions;
- iv. The total duration of any visible emission incident; and
- v. Any corrective actions taken to eliminate the visible emissions.

b. For the shop built screen and the Eagle wet sand screw:

- i. The color of the emissions;
- ii. The cause of the abnormal emissions;
- iii. The total duration of any visible emission incident; and
- iv. Any corrective actions taken to eliminate the visible emissions.

2. 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:

material handling operation(s)

minimum inspection frequency

See Term and Condition A.2.c
above for list of material handling
operations.

daily

3. The above-mentioned inspections shall be performed during representative, normal operating conditions.
4. 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.
5. The permittee shall maintain records of the following information:
 - a. The date and reason any required inspection was not performed;
 - b. The date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. The dates 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 5.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 semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive were observed from the the Simplicity screen, the shop built screen, and/or the Eagle wet sand screw and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. 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.
3. The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in section 60.672 of 40 CFR Part 60, subpart

OOO, including reports of opacity observations made using Method 9 to demonstrate compliance with section 60.672(b) of 40 CFR Part 60, subpart OOO.

4. The permittee of any screening operation, bucket elevator, or belt conveyor that processes saturated material and is subject to the no visible emission limit and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the 10 percent opacity limit and the emission test requirements of Section 60.11 of 40 CFR Part 60, subpart A and 40 CFR Part 60, subpart OOO. Likewise a screening operation, bucket elevator, or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the no visible emission limit.
5. A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator. For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the permittee to the Administrator. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.
6. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.2.

E. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which this emissions unit will be operated, but not later than 180 days after initial start-up.
 - b. The emission testing shall be conducted to demonstrate compliance with opacity emission limitations for the Simplicity screen and the transfer points listed in Section A.2.c of these terms and conditions with an emission limitation of 10% opacity and subject to 40 CFR Part 60, subpart OOO.
 - c. The following test method(s) shall be employed to demonstrate compliance: for particulate emissions Method 9 of 40 CFR Part 60, Appendix A and the procedures in Section 60.11 of 40 CFR Part 60, subpart A, with the following additions:
 - i. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).

- ii. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.
 - iii. For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.
 - d. When demonstrating compliance with the fugitive emissions standard for the Simplicity screen and the transfer points listed in Section A.2.c of these terms and conditions with an emission limitation of 10% opacity and subject to 40 CFR Part 60, subpart OOO, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:
 - i. There are no individual readings greater than 10 percent opacity; and
 - ii. There are no more than 3 readings of 10 percent for the 1-hour period.
 - e. If emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from any individual affected facility cannot be read, either of the following procedures may be used:
 - i. Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream; or
 - ii. Separate the emissions so that the opacity of emissions from each affected facility can be read.
 - f. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
- 2. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).
- 3. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to

ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

4. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.
5. The initial performance tests required in Sections E.1 through E.4 of these terms and conditions is not required for wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to, but not including the next crusher, grinding mill, or storage bin.
6. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation

5.3 tons of PE per year

Applicable Compliance Method

Total Emissions = Screening + Load-in to feed hopper + Conveying transfer points

Screening: For each screening operation, multiply the AP-42 emission factor (AP-42, Table 11.19.2-2 (1/95)) of 0.001764* pound of particulate emissions per ton of material throughput by the maximum annual material throughput rate.

Load-in to Feed Hopper: Multiply the AP-42 derived emission factor (AP-42, Chapter 13.2.4 equation 1 (1/95)) of 0.00218 pound of particulate emissions per ton of loaded-in by the maximum annual amount of material loaded-in, then divided by 2000.

Conveying transfer points: For each conveyor transfer point, multiply the AP-42 emission factor (AP-42, Table 11.19.2-2 (1/95)) of 0.0001* pound of particulate emissions per ton of material throughput by the maximum annual material throughput rate, then divided by 2000.

*Emission factor was multiplied by 2.1 to convert the emission factor from PM-10 to total suspended particulate.

b. Emission Limitation

20% opacity as a three-minute average

Applicable Compliance Method

OAC rule 3745-17-03(B)(3)

c. Emission Limitation

10% opacity for the screening operation and the transfer points listed in Section A.2.c of these terms and conditions.

Applicable Compliance Method

Compliance shall be demonstrated using US EPA Method 9 of 40 CFR Part 60, Appendix A and the procedures in Section 60.11 of 40 CFR Part 60, subpart A as required in sections E.1 through E.4 of these terms and conditions.

d. Emission Limitation

no visible particulate emissions

Applicable Compliance Method

Method 22 of 40 CFR Part 60, Appendix A

e. Emission Limitation:

4.15 pounds of NO_x per hour

Applicable Compliance Method:

Multiply the AP-42 emission factor of 4.41 pounds of NO_x per million Btu of fuel input (AP-42 Table 3.3-1 dated 10/96) by the maximum fuel input.

f. Emission Limitation:

18.18 tons of NO_x per year

Applicable Compliance Method:

Multiply the allowable hourly emissions limitation by 8760 hours per year, then divide by 2000 pounds per ton.

g. Emission Limitation:

0.89 pound of CO per hour

Applicable Compliance Method:

Multiply the AP-42 emission factor of 0.95 pound of CO per million Btu of fuel input (AP-42 Table 3.3-1 dated 10/96) by the maximum fuel input.

h. Emission Limitation:

3.90 tons of CO per year

Applicable Compliance Method:

Multiply the allowable hourly emissions limitation by 8760 hours per year, then divide by 2000 pounds per ton.

i. Emission Limitation:

0.27 pound of SO_x per hour

Applicable Compliance Method:

Multiply the AP-42 emission factor of 0.29 pound of SO_x per million Btu of fuel input (AP-42 Table 3.3-1 dated 10/96) by the maximum fuel input.

j. Emission Limitation:

1.18 tons of SO_x per year

Applicable Compliance Method:

Multiply the allowable hourly emissions limitation by 8760 hours per year, then divide by 2000 pounds per ton.

k. Emission Limitation:

0.29 pound of PE per hour

Applicable Compliance Method:

Multiply the allowable emission limit of 0.310 pound of PE per million Btu of actual fuel input by the maximum fuel input.

l. Emission Limitation:

1.27 tons of PE per year

Applicable Compliance Method:

Multiply the allowable hourly emissions limitation by 8760 hours per year, then divide by 2000 pounds per ton.

m. Emission Limitation:

0.33 pound of OC per hour

Applicable Compliance Method:

Multiply the AP-42 emission factor of 0.35 pound of OC per million Btu of fuel input (AP-42 Table 3.3-1 dated 10/96) by the maximum fuel input.

n. Emission Limitation:

1.45 tons of OC per year

Applicable Compliance Method:

Multiply the allowable hourly emissions limitation by 8760 hours per year, then divide by 2000 pounds per ton.

o. Emission Limitation:

Visible particulate emissions from the diesel generator's exhaust stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

p. Emission Limitation:

The particulate emissions from the diesel generator's exhaust shall not exceed 0.310 pound per million Btu of actual heat input.

Applicable Compliance Method:

If required, compliance with the allowable emission limitation shall be determined in accordance with test method(s) and procedures specified in OAC rule 3745-17-03(B)(10).

F. Miscellaneous Requirements

Oscar Brugmann Sand and Gravel

PTI Application: 16-02235

Issued: 7/16/2002

Facility ID: 1667050040

Emissions Unit ID: F009

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>
F010 - Storage piles for aggregate processing plant 5.	OAC rule 3745-31-05(A)(3)	7.5 tons of particulate emissions (PE) per year
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)	There shall be no visible particulate emissions except for a period of time not to exceed one minute in any sixty-minute observation period. best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b, A.2.c and A.2.f)
wind erosion from storage piles (see Section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3)	There shall be no visible particulate emissions except for a period of time not to exceed one minute in any sixty-minute observation period. best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.d through A.2.f)

2. Additional Terms and Conditions

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

<u>storage pile identification</u>	<u>number of separate piles</u>
course aggregate	1
washed aggregate	2
washed sand	1

- 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 maintain a high moisture content of the material being stored and a low drop height 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 maintain a high moisture content and a low silt content of the material being stored to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.f** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
- 2.g** The 7.5 tons of PE per year limitation was established for PTI purposes to reflect the potential to emit for this emission unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

2.h This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A) and OAC rule 3745-17-07(B)(11)(e), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B) and OAC rule 3745-17-07(B).

B. Operational Restrictions

None

C. Monitoring and/or Record keeping 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>
course aggregate	daily
washed aggregate	daily
washed sand	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>
course aggregate	daily
washed aggregate	daily
washed sand	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>
course aggregate	daily
washed aggregate	daily
washed sand	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. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:

There shall be no visible particulate emissions except for a period of time not to exceed one minute in any sixty-minute observation period.

Applicable Compliance Method:

Compliance with the emission limitation 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.

- b. Emission Limitation:

7.5 tons of PE per year

Applicable Compliance Method:

Total emissions = load-in + load-out + wind erosion

load-in: multiply the AP-42 derived emission factor (AP-42 Chapter 13.2.4, equation 1, dated 1/95) of 0.00218 pound of particulate emissions per ton of material loaded-in by the maximum yearly amount of material loaded-in, then divide by 2000 pounds/ton.

load-out: multiply the AP-42 derived emission factor (AP-42 Chapter 13.2.4, equation 1, dated 1/95) of 0.00218 pound of particulate emissions per ton of material loaded-out by the maximum yearly amount of material loaded-out, then divide by 2000 pounds/ton.

wind erosion: multiply the AP-42 emission factor of 3.5 pounds of particulate emissions per acre per day (AP-42 Table 11.12-2, date 10/86) by the maximum acres of the storage piles by 365 day per year, then divide by 2000 pounds/ton.

F. Miscellaneous Requirements

None

NEW SOURCE REVIEW FORM B

PTI Number: 16-02235

Facility ID: 1667050040

FACILITY NAME Oscar Brugmann Sand and Gravel

FACILITY DESCRIPTION Aggregate Processing Plant. CITY/TWP Mantua

SIC CODE 1442 SCC CODE 3-05-025-11 EMISSIONS UNIT ID F009

EMISSIONS UNIT DESCRIPTION Aggregate processing plant 5.

DATE INSTALLED May 2002

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter			2.78		6.57
PM ₁₀					
Sulfur Dioxide			0.68	0.27 lb/hr	1.18
Organic Compounds			0.83	0.33 lb/hr	1.45
Nitrogen Oxides			10.38	4.15 lbs/hr	18.18
Carbon Monoxide			2.23	0.89 lb/hr	3.90
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? 40 CFR Part 60, NESHAP? PSD? OFFSET POLICY?
subpart OOO

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

Compliance with the terms and conditions of this permit.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No.

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

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? YES NO

IDENTIFY THE AIR CONTAMINANTS:

NEW SOURCE REVIEW FORM B

PTI Number: 16-02235

Facility ID: 1667050040

FACILITY NAME Oscar Brugmann Sand and Gravel

FACILITY DESCRIPTION Aggregate Processing Plant. CITY/TWP Mantua

SIC CODE 1442 SCC CODE 3-05-025-07 EMISSIONS UNIT ID F010

EMISSIONS UNIT DESCRIPTION Storage piles for aggregate processing plant 5.

DATE INSTALLED not begun

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter			5.72		7.5
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

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

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

Compliance with the terms and conditions of this permit.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No.

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____