



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL MODIFICATION
WASHINGTON COUNTY**

CERTIFIED MAIL

Street Address:

50 West Town Street, Suite 700

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 06-05498

Fac ID: 0684000207

DATE: 7/26/2007

Shelly Co. Willow Island Sand and Grave
Katherine Beach
301 Frank Road
Columbus, OH 43207

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 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. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. 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, OH 43215

Sincerely,

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

CC: USEPA

SEDO



**Permit To Install
Terms and Conditions**

**Issue Date: 7/26/2007
Effective Date: 7/26/2007**

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 06-05498

Application Number: 06-05498
Facility ID: 0684000207
Permit Fee: **\$0**
Name of Facility: Shelly Co. Willow Island Sand and Grave
Person to Contact: Katherine Beach
Address: 301 Frank Road
Columbus, OH 43207

Location of proposed air contaminant source(s) [emissions unit(s)]:
St. Route 7 (4 miles North of Reno)
Reno, Ohio

Description of proposed emissions unit(s):
Administrative modification to remove portable language.

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification 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 source(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 included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski
Director

Shelly Co. Willow Island Sand and Grave
PTI Application: 06-05498
Modification Issued: 7/26/2007

Facility ID: 068400020

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 (i.e., postmarked) quarterly 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

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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)

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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.

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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>
PE (fugitive)	8.94

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.

Operations, Property, and/or Equipment - F001 - 75 TPH Sand and Gravel Crusher and Screens

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	1.82 tons/year fugitive particulate emissions (PE) Best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (See Sections A.2.b through A.2.d) There shall be no visible emissions of fugitive dust from this emissions unit.
OAC rule 3745-17-07(B)	The requirements specified in this rule are less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3).
OAC rules 3745-17-08(B)	The requirements specified in this rule are less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3).
40 CFR 60 Subpart OOO	The emission limitations specified in this rule are less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

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

75 TPH Sand and Gravel Crusher and Screeners

- 2.b The permittee shall employ best available control measures for the above-identified 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 watering of all the above-mentioned material handling operations if the inherent

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moisture content of the aggregate material is insufficient to ensure compliance with the above-mentioned applicable requirements. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.c** For each crushing and screening 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 measure(s) 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(A)(3).

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

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

<u>material handling operation(s)</u>	<u>minimum inspection frequency</u>
75 TPH Sand and Gravel Crusher and Screens	Daily

The above-mentioned inspections shall be performed during representative, normal operating conditions.

2. For materials handling operations the permittee shall maintain records of the following information:
- a. the date and reason any required inspection was not performed;

Emissions Unit ID: **F001**

- 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 2.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. For material handling operations the permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency; and,
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
3. Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at appropriate times:
 - a. construction date (no later than 30 days after such date);
 - b. actual start-up date (within 15 days after such date); and
 - c. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC- Permit Management Unit
50 West Town Street, Suite 700
PO Box 1049

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Columbus, Ohio 43216-1049

and

Ohio EPA Southeast District Office
Division of Air Pollution Control
2195 Front Street
Logan, Ohio 43138.

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:
1.82 tons/year of fugitive particulate emissions (PE)

Applicable Compliance Method:

Compliance with the annual emission limitation shall be demonstrated by the following calculations based on the emission factors in AP-42 section 11.19.2, (8/04) and the maximum annual throughput of 657,000 TPY.

Crushing and Screening

$$\begin{aligned} PE &= [((\text{Screening EF})(\text{Max Annual Tons}) + ((\text{Crushing EF})(\text{Max Annual Tons}))/2000 \text{ lbs/ton}) \\ PE &= [((2)(0.025 \text{ lbs/ton})(657,000 \text{ TPY})) + ((0.0054 \text{ lbs/tons})(657,000 \text{ TPY}))/2000 \text{ lbs/ton} \\ &= [32,850 \text{ lbs}] + [3,548 \text{ lbs}]/2000 \text{ lbs/ton} \\ &= 18.2 \text{ TPY uncontrolled PE} \end{aligned}$$

Assume 90% control for watering (engineering estimate of permittee)
(18.2 TPY) (0.10) = 1.82 TPY controlled PE

- b. Emission Limitation:
There shall be no visible emissions of fugitive dust from this emissions unit.

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation in accordance with Method 22 of 40 CFR Part 60, Appendix A. See Section E.2.

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2. 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 180 days of start-up of the emissions unit.
 - b. The emissions testing shall be conducted to demonstrate compliance with the visible emission limitations for fugitive emissions for each crushing and screening operation, as specified in Section A.2.a of this permit.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable emission rate(s): for visible emissions, Method 22 of 40 CFR 60, Appendix A.
 - d. 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 Ohio EPA, Southeast District Office.
 - e. No later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Southeast District Office's refusal to accept the results of the emissions test(s).
 - f. Personnel from the Ohio EPA, Southeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
 - g. 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 Ohio EPA, Southeast District Office within 30 days following completion of test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Southeast District Office.

Shelly Co. Willow Island Sand and Grave
DTI Application: 06 05108

Facility ID: 068400020

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.

Operations, Property, and/or Equipment - F002 - Sand and Gravel Storage Piles including load-in, load-out and wind erosion

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	0.50 tons/year of fugitive PE No visible PE except for one minute during any 60-minute period. Best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (See Sections A.2.a through A.2.f)
OAC rule 3745-17-07(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-08(B)	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. 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(A)(3) are listed below:

ALL

- 2.b The load-in and load-out operations that are covered by this permit and subject to the requirements of OAC rule 3745-31-05(A)(3) are listed below:

Load-in to raw material storage pile
Load-out of raw material storage pile
Load-in to product storage pile

Load-out of product storage pile

- 2.c** 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 application, the permittee has committed to control fugitive emissions by utilizing water sprinkling systems at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d** 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.e** 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 application, the permittee has committed to watering storage piles to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.f** 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 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.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 requirements of 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>
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ALL	DAILY
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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>
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ALL	DAILY
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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>
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ALL	DAILY
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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 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 6.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 quarterly deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
- 2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions fo 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:
No visible PE except for one minute during any 60 minute period.

Compliance Method:

If required, 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").

- b. Emission Limitation:
0.50 tons/year fugitive PE

Compliance Method:

Compliance shall be determined based on the emission factor calculation for drop operations associated with storage piles in AP-42 section 13.2.4 (11/06).

Initial compliance has been determined using inputs representing current conditions as follows:

For Gravel Storage Piles:

$$EF = k (0.0032) [(U/5)^{1.3} / (M/2)^{1.4}]$$

Where:

EF = emission factor expressed in pounds per ton (lbs/ton)

k = particle size multiplier for TSP (dimensionless) = 0.74

U = mean wind speed expressed in miles per hour (MPH) = 4.7

M = material moisture content (%) = 6.0

Therefore, EF = 0.00047 lbs/ton

maximum annual load-in throughput = 296,000 tons/year

maximum annual load-out throughput = 296,000 tons/year

$$[(2)(296,000 \text{ tons/year}) (0.00047 \text{ lb PE/ton}) + (2)(296,000 \text{ tons/year})(0.00047 \text{ lb PE/ton})] / 2000 \text{ lb/ton}$$

= 0.278 TPY of uncontrolled PE

Assume 70 % control for watering (engineering estimate of permittee)

(0.278TPY) (0.30) = 0.08 TPY of controlled PE and;

the emission factor calculation for wind erosion from storage piles found in USEPA's Control of Open Fugitive Dust Sources (9/88). Initial compliance has been determined using inputs representing current conditions as follows:

$$EF = (1.7) (s/1.5) ((365-p)/235) (f/15)$$

Where:

E= emission factor in pounds (lbs)/day/acre
 s = silt content of road surface material (%) = 1.5%
 p= number of rain days per year >0.01 in. = 145
 f = percentage of time that wind speed exceeds 12 mph (%) = 30
 A= total surface area of storage piles (acres) = 1.0

Therefore, EF= 3.18 lbs/day/acre

$[(3.18 \text{ lbs/day/acre})(365 \text{ days/yr})(1.0 \text{ acres})]/2000 \text{ lbs/ton} = 0.580 \text{ TPY}$
 uncontrolled PE

Assume 90% control for watering (engineering estimate of permittee)
 $(0.580 \text{ TPY})(0.10) = 0.06 \text{ TPY}$ controlled PE

TOTAL EMISSIONS FROM GRAVEL PILES

Load-in and load-out operations =0.08 TPY

Wind erosion = 0.06 TPY

Total emissions from gravel piles= 0.14 TPY

For Sand Storage Piles:

$$EF = k (0.0032) [(U/5)^{1.3} / (M/2)^{1.4}]$$

Where:

EF = emission factor expressed in pounds per ton (lbs/ton)

k = particle size multiplier for TSP (dimensionless) = 0.74

U = mean wind speed expressed in miles per hour (MPH) = 4.7

M= material moisture content (%) = 3.0

Therefore, EF = 0.0012 lbs/ton

maximum annual load-in throughput =361,000 tons/year

maximum annual load-out throughput = 361,000 tons/year

$[(2)(361,000 \text{ tons/year})(0.0012 \text{ lb PE/ton}) + (2)(361,000 \text{ tons/year})(0.0012 \text{ lb PE/ton})] / 2000 \text{ lb/ton}$
 =0.86 TPY of uncontrolled PE

Assume 70 % control for watering (engineering estimate of permittee)
 (0.86TPY) (0.30) = 0.26 TPY of controlled PE and;

the emission factor calculation for wind erosion from storage piles found in USEPA's Control of Open Fugitive Dust Sources (9/88). Initial compliance has been determined using inputs representing current conditions as follows:

$$EF = (1.7) (s/1.5) ((365-p)/235)) (f/15)$$

Where:

E= emission factor in pounds (lbs)/day/acre

s = silt content of road surface material (%) = 2.5%

p= number of rain days per year >0.01 in. = 145

f = percentage of time that wind speed exceeds 12 mph (%) = 30

A= total surface area of storage piles (acres) = 1.0

Therefore, EF= 5.30 lbs/day/acre

$$[(5.30 \text{ lbs/day/acre})(365 \text{ days/yr})(1.0 \text{ acres})]/2000 \text{ lbs/ton} = 0.97 \text{ TPY uncontrolled PE}$$

Assume 90% control for watering (engineering estimate of permittee)
 (0.97 TPY) (0.10) = 0.10 TPY controlled PE

TOTAL EMISSIONS FROM SAND PILES

Load-in and load-out operations =0.26 TPY

Wind erosion = 0.10 TPY

Total emissions from gravel piles= 0.36 TPY

TOTAL EMISSIONS FROM ALL STORAGE PILES

Gravel Storage Piles + Sand Storage Piles =

0.14 TPY + 0.36 TPY = 0.50 TPY

F. Miscellaneous Requirements

None

Emissions Unit ID: **F003****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.

Operations, Property, and/or Equipment - F003 - Paved and Unpaved Roadways and Parking Areas

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>4.13 tons/year of fugitive particulate emissions (PE)</p> <p>No visible PE except for 3 minute during any 60-minute period from unpaved roadways and parking areas.</p> <p>No visible PE except for 1 minute during any 60-minute period from paved roadways and parking areas.</p> <p>Best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (See Sections A.2.a through A.2.e.)</p>
OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-08(B)	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. Additional Terms and Conditions

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

Paved roadways:

Plant to State Route 7 (0.9 miles)

Paved parking areas:

None

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

Unpaved roadways:

Pit to Plant (1.0 miles)
Plant to State Route 7 (1.0 miles)

Unpaved parking area:

Office Parking

- 2.c** The permittee shall employ best available control measures on all unpaved roadways for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to treat the unpaved roadways and parking areas by 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.d** 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 unpaved roadways that are 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.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** Any unpaved roadways, which during the term of this permit is paved or takes on the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified for

paved surfaces. Any unpaved roadway that takes on the characteristics of a paved surface due to the application of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways. Any unpaved area that is paved shall be subject to the visible emission limitation of one minute during any 60 minute period.

- 2.g** 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.

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 of the roadway segments and parking areas in accordance with the following frequencies:

<u>paved roadways and parking areas</u>	<u>minimum inspection frequency</u>
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all roads and parking areas	daily
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<u>unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
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all roads and parking areas	daily
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- 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 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 3.d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter and shall be kept separately for :

- i. unpaved roadways and parking areas; and
- ii. paved roadways and parking areas.

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 Limitations:
4.13 tons/year of fugitive particulate emissions (PE)

Compliance Method:

Compliance shall be determined based on the emission factor calculations for unpaved roadways and parking areas in AP-42 section 13.2.2, (11/06) and for paved roadways and parking areas in AP-42 section 13.2.1 (11/06). Initial compliance has been determined utilizing inputs representing current conditions as follows:

For unpaved roadways and parking areas:

$$EF = [k(s/12)^a(W/3)^b[(365-p)/365]]$$

Where:

EF = size-specific emission factor (lb/VMT)
 s = silt content of road surface material (%) = 1.5 %
 W = mean vehicle weight (tons) = 30
 a = constant (dimensionless) = 0.7
 b = constant (dimensionless) = 0.45
 k = particle size multiplier (dimensionless) = 4.9
 p = number of rain days per year >0.01 in. = 145

Therefore, EF = 1.94 lb/VMT

Maximum travel = 4,928 VMT/year

$(4,928 \text{ VMT/year})(1.94 \text{ lb/VMT})(1 \text{ ton}/2000 \text{ lbs}) = 4.78 \text{ TPY uncontrolled PE}$

Assume 95% control efficiency for roadway watering (Cleveland SIP Study)
 $(4.78 \text{ TPY})(0.05) = 0.24 \text{ TPY controlled PE}$

For paved roadways and parking areas:

$EF = ((k*(sL/2)^{0.65}*(W/3)^{1.5}-C)*(1-P/(4*365)))$

Where:

EF = size-specific emission factor (lb/VMT)
 k = particle size multiplier (lb/VMT) = 0.082
 sL = road surface silt loading (g/m²) = 70
 W = average vehicle weight (tons) = 30
 C = emission factor for 1980's vehicle fleet exhaust = 0.00047
 P = days/yr with > 0.01 inches of precipitation = 145

Therefore, EF = 23.55 lb/VMT

Maximum travel = 6,605 VMT/year

$(6,605 \text{ VMT/year})(23.55 \text{ lb/VMT})(1 \text{ ton}/2000 \text{ lbs}) = 77.78 \text{ TPY uncontrolled PE}$

Assume 95% control efficiency for roadway watering (Cleveland SIP Study)
 $(77.78 \text{ TPY})(0.05) = 3.89 \text{ TPY controlled PE}$

Total Emissions = Paved + Unpaved Roadways and Parking Areas
3.89 TPY + 0.24 TPY = 4.13 TPY of fugitive particulate emissions (PE)

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.

Operations, Property, and/or Equipment - F004 - Material Handling (sand and gravel)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	2.49 tons per year of fugitive particulate emissions (PE) There shall be no visible particulate emissions from the material handling operations. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See Sections A.2.b through A.2.b)
OAC rule 3745-17-07(B)	The emission limitation and control measures specified by these rules are less stringent than the emission limitation and control measures established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-08(B)	The emission limitation and control measures specified by these rules are less stringent than the emission limitation and control measures established pursuant to OAC rule 3745-31-05(A)(3).
40 CFR 60, Subpart OOO	The emission limitation and control measures specified by these rules are less stringent than the emission limitation and control measures established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a** The material handling operations, that are covered by this permit and subject to the requirements of OAC rule 3745-31-05(A)(3), OAC rule 3745-17-07(B), and OAC rule 3745-17-08(B) are listed below:

Load-in by radial stacker
Load-out by front end loader
Transfer Points
Conveyors

2.b The permittee shall employ best available control measures for the above-identified 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 watering of all the above-mentioned material handling operations if the inherent moisture content of the aggregate material is insufficient to ensure compliance with the above-mentioned applicable requirements. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2.c For each material handling operation that is not adequately enclosed, the above-identified control 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 measure(s) is unnecessary.

2.d Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate to satisfy the requirements of OAC rule 3745-31-05(A)(3) and 3745-17-08.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

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

<u>material handling operation(s)</u>	<u>minimum inspection frequency</u>
All	Daily

The above-mentioned inspections shall be performed during representative, normal operating conditions.

2. For material handling operations the permittee shall maintain records of the following information:

Emissions Unit ID: **F004**

- 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 2.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. For material handling operations the permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency; and,
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
3. Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at appropriate times:
 - a. construction date (no later than 30 days after such date);
 - b. actual start-up date (within 15 days after such date); and
 - c. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC- Permit Management Unit

Emissions Unit ID: **F004**

50 West Town Street, Suite 700
PO Box 1049
Columbus, Ohio 43216-1049

and

Ohio EPA Southeast District Office
Division of Air Pollution Control
2195 Front Street
Logan, Ohio 43138.

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 from the material handling operations.

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation in accordance with Method 22 of 40 CFR Part 60, Appendix A. See Section E.2.

- c. Emission Limitation:

2.49 tons per year of fugitive particulate emissions (PE)

Applicable Compliance Method:

Compliance with the annual emission limitation shall be demonstrated by the following calculations based on the emission factors in AP-42 sections 13.2.4 (11/06) and 11.19.2 (8/04); and the maximum annual throughput of 657,000TPY

Load-In to by radial stacker and Load-out by front end Loader

$$EF = k (0.0032) [(U/5)^{1.3} / (M/2)^{1.4}]$$

Where:

EF = emission factor expressed in pounds per ton (lbs/ton)

k = particle size multiplier for TSP (dimensionless) = 0.74

U = mean wind speed expressed in miles per hour (MPH) = 4.7

M= material moisture content (%) = 1.5

Therefore, EF = 0.0033 lbs/ton

maximum annual load-in throughput = 657,000 TPY

maximum annual load-out throughput = 657,000 TPY

$$PE = [((1 \text{ load-ins})(0.0033 \text{ lb/ton})(657,000 \text{ TPY})) + ((1 \text{ load-out})(0.0033 \text{ lbs/ton})(657,000 \text{TPY}))] / 2000 \text{ lbs/ton}$$

$$= 2.17 \text{ TPY uncontrolled PE}$$

Assume 90% control for watering (engineering estimate of permittee)

$$(2.17 \text{ TPY})(0.10) = 0.22 \text{ controlled PE}$$

Transfer Points

$$\begin{aligned} \text{PE} &= [(\# \text{ transfer points})(\text{transfer points EF})(\text{Max Annual Total})] \\ \text{PE} &= [(23)(0.003 \text{ lbs/ton})(657,000 \text{ TPY})] / 2000 \text{ lbs/ton} \\ &= 45,333 \text{ lbs}/2000 \text{ lbs/ton} \\ &= 22.7 \text{ TPY uncontrolled PE} \end{aligned}$$

Assume 90% control for watering (engineering estimate of permittee)
 $(22.7 \text{ TPY}) (0.10) = 2.27 \text{ TPY controlled PE}$

$$\begin{aligned} \text{Total emissions} &= \text{Load-in and Load-out} + \text{Transfer Points} \\ &= 0.22 \text{ TPY} + 2.27 \text{ TPY} = 2.49 \text{ TPY} \end{aligned}$$

2. 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 180 days of start-up of the emissions unit at an affected facility.
 - b. The emissions testing shall be conducted to demonstrate compliance with the visible emission limitations for fugitive emissions for each transfer point and conveyor as specified in Section A.2.a of this permit.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable emission rate(s): for visible emissions, Method 22 of 40 CFR 60, Appendix A.
 - d. 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 Ohio EPA, Southeast District Office.
 - e. No later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Southeast District Office's refusal to accept the results of the emissions test(s).

Emissions Unit ID: **F004**

- f. Personnel from the Ohio EPA, Southeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- g. 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 Ohio EPA, Southeast District Office within 30 days following completion of test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Southeast District Office.

F. Miscellaneous Requirements

None

NEW SOURCE REVIEW FORM B

PTI Number: 06-05498

Facility ID: 0684000207

FACILITY NAME Shelly Co. Willow Island Sand and Grave

FACILITY DESCRIPTION Administrative modification to remove CITY/TWP Reno

Emissions Unit ID: **F004**

SIC CODE

1442

SCC CODE

30502510 and
30502511

EMISSIONS UNIT ID

F001

EMISSIONS UNIT DESCRIPTION 75 TPH Sand and Gravel crusher and screens

DATE INSTALLED

12/1/99

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	attainment for TPM	N/A	1.82	N/A	1.82
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? **Subpart 000**

NESHAP? NO

PSD? NO

OFFSET POLICY? NO

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

RACM to minimize or eliminate visible emissions, watering to control, no fugitive VEs.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? NO

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT?

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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: 06-05498

Facility ID: 0684000207

FACILITY NAME Shelly Co. Willow Island Sand and Grave

FACILITY DESCRIPTION Administrative modification to remove CITY/TWP Reno

Emissions Unit ID: **F004**

SIC CODE 1442

SCC CODE 30502507

EMISSIONS UNIT ID F002

EMISSIONS UNIT DESCRIPTION Storage Piles including load-in, load-out and wind erosion

DATE INSTALLED 12/1/99

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	attainment for TPM	N/A	0.50	N/A	0.50
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NO

NESHAP? NO

PSD? NO

OFFSET POLICY? NO

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

1 minute of VE in 60 minutes, minimize or eliminate VE, and watering for control

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: 06-05498

Facility ID: 0684000207

FACILITY NAME Shelly Co. Willow Island Sand and Grave

FACILITY DESCRIPTION Administrative modification to remove CITY/TWP Reno

Emissions Unit ID: **F004**

SIC CODE 1442

SCC CODE 30502599

EMISSIONS UNIT ID F003

EMISSIONS UNIT DESCRIPTION Paved and Unpaved Roadways and Parking Areas

DATE INSTALLED 12/1/99

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	attainment for TPM	N/A	4.13	N/A	4.13
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NO

NESHAP? NO

PSD? NO

OFFSET POLICY? NO

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

Unpaved: 3 minutes of VE in 60 minutes, Paved: 1 minute of VE in 60 minutes, minimize or eliminate VE on both paved and unpaved and watering for control

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: _____

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Emissions Unit ID: **F004**

FACILITY DESCRIPTION Administrative modification to remove portable language. CITY/TWP Reno

SIC CODE 1442 SCC CODE 30502503 and 30502505 EMISSIONS UNIT ID F004

EMISSIONS UNIT DESCRIPTION Material Handling (sand and gravel)
DATE INSTALLED 12/1/99

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	attainment for TPM	N/A	2.49	N/A	2.49
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? Subpart OOO NESHAP? NO PSD? NO OFFSET POLICY? NO

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

No visible emissions, RACM to minimize or eliminate VE, no fugitive VEs.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? NO

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

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____