



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
HAMILTON COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 14-05810

Fac ID: 1431230839

DATE: 3/9/2006

Harrison Sand and Gravel
Patrick Montgomery
4770 Duke Drive, Suite 200
Mason, OH 45040

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern

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

CC: USEPA

HCDES



**Permit To Install
Terms and Conditions**

**Issue Date: 3/9/2006
Effective Date: 3/9/2006**

FINAL PERMIT TO INSTALL 14-05810

Application Number: 14-05810
Facility ID: 1431230839
Permit Fee: **\$400**
Name of Facility: Harrison Sand and Gravel
Person to Contact: Patrick Montgomery
Address: 4770 Duke Drive, Suite 200
Mason, OH 45040

Location of proposed air contaminant source(s) [emissions unit(s)]:
**170 Pilot Road
Harrison, Ohio**

Description of proposed emissions unit(s):
3.762 MMBTU/hr diesel generator.

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

Harrison Sand and Gravel
PTI Application: 14-05810
Issued: 3/9/2006

Facility ID: 1431230839

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

Harrison Sand and Gravel
PTI Application: 14-05810
Issued: 3/9/2006

Facility ID: 1431230839

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)

Harrison Sand and Gravel
PTI Application: 14-05810
Issued: 3/9/2006

Facility ID: 1431230839

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.

Harrison Sand and Gravel
 PTI Application: 14-05810
 Issued: 3/9/2006

Facility ID: 1431230839

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

Pollutant

Tons Per Year

Harrison Sand and Gravel
PTI Application: 14-05810
Issued: 3/9/2006

Facility ID: 1431230839

PE	1.00
PM10	0.92
SO2	8.12
NOx	51.47
CO	13.67
TOC	1.45

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
P001 - 3.672 mmBtu/hr diesel engine	<p>OAC rule 3745-31-05(A)(3)</p> <p>OAC rule 3745-17-07(A)(1)</p> <p>OAC rule 3745-17-11(B)(5)(b)</p> <p>OAC rule 3745-18-06(G)</p> <p>OAC rule 3745-21-08(B)</p> <p>OAC rule 3745-23-06(B)</p>

**Harris
PTI A
Issued: 3/9/2006**

Emissions Unit ID: P001

Applicable Emissions Limitations/Control Measures

Particulate emissions (PE) shall not exceed 1.0 tons per year (TPY).

Particulate matter 10 microns and less in diameter (PM10) emissions shall not exceed 0.21 lb/hr and 0.92 TPY.

Sulfur dioxide (SO2) emissions shall not exceed 1.85 lb/hr and 8.12 TPY.

Nitrogen oxides (NOx) emissions shall not exceed 11.75 lbs/hr and 51.47 TPY.

Carbon monoxide (CO) emissions shall not exceed 3.12 lb/hr and 13.67 TPY.

Total organic compound (TOC) emissions shall not exceed 0.33 lb/hr and 1.45 TPY.

See term and condition B.1.

The requirements of this rule also includes compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-17-11(B)(5)(a), OAC rule 3745-21-08(B) and OAC rule 3745-23-06(B).

Visible PE from any stack shall not exceed 20% opacity, as a 6-

minute average, except as specified by rule.

PE shall not exceed 0.062 lb/mmBtu actual heat input.

Exempt, pursuant to OAC rule 3745-18-06(B).

See term and condition A.2.b.

See term and condition A.2.c.

2. Additional Terms and Conditions

2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of No. 2 fuel oil, fuel oil sulfur content limitation and compliance with specified emission limitations.

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-05810.

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

2.c The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 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 Permit to Install 14-05810.

On February 15, 2005, OAC rule 3745-23-06 was rescinded and therefore no longer a part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-23-06, the requirement to satisfy "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.d The hourly and annual emissions limitations specified above represent the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping or reporting is required to demonstrate compliance with these emissions limitations.

B. Operational Restrictions

1. The permittee shall only burn No. 2 fuel oil with a sulfur content of 0.5 percent, by

weight, or less in this emissions unit.

C. Monitoring and/or Recordkeeping Requirements

1. For each day during which the permittee burns a fuel other than No. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the permittee's or oil supplier's analyses for sulfur content. A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

The permittee shall perform or require the supplier to perform the analyses for sulfur content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM method (such as, ASTM method D4294), or an equivalent method as approved by the Director.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record that shows this emissions unit employed a fuel other than No. 2 fuel oil. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the occurrence.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the No. 2 fuel oil sulfur content limitation.
3. The deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitations specified in Section A. shall be determined in accordance with the following methods:

- a. Emissions Limitation:
Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources") as such appendix existed on July 1, 2002 and the procedures specified in OAC rule 3745-17-03(B)(1).

- b. Emissions Limitation:
1.85 lb of SO₂ emissions/hr; 8.12 ton/year of SO₂ emissions

Applicable Compliance Method:

The hourly emission limitation is based upon the emissions unit's potential to emit and was established by multiplying the emissions unit's total heat input of 3.672 mmBtu/hr by the emission factor of 0.505 lb of SO₂ emissions/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.4, Table 3.4-1 (10/96).

The annual SO₂ emission limitation was established by the following methodology:

$$\text{SO}_2: 8760 \text{ hrs/yr} \times 1.85 \text{ lb/hr} \times 1 \text{ ton}/2000 \text{ lbs} = 8.12 \text{ tons/yr}$$

If required, the permittee shall demonstrate compliance with the hourly SO₂ emissions limitation through emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 6.

- c. Emissions Limitation:
11.75 lbs of NO_x emissions/hr; 51.47 tons/year of NO_x emissions

Applicable Compliance Method:

The hourly emissions limitation is based upon the emissions unit's potential to emit and was established by multiplying the emissions unit's total heat input of 3.672 mmBtu/hr by the emission factor of 3.2 lbs of NO_x emissions/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.4, Table 3.4-1 (10/96).

$$\text{NO}_x: 8760 \text{ hrs/yr} \times 11.75 \text{ lb/hr} \times 1 \text{ ton}/2000 \text{ lbs} = 51.47 \text{ tons/yr}$$

If required, the permittee shall demonstrate compliance with the hourly NOx emission limitation through emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 7.

- d. Emissions Limitation:
3.12 lb of CO emissions/hr; 13.67 tons/year of CO emissions

Emissions Unit ID: P001

Applicable Compliance Method:

The hourly emission limitation is based upon the emissions unit's potential to emit and was established by multiplying the emissions unit's total heat input of 3.672 mmBtu/hr by the emission factor of 0.85 lb of CO emissions/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.4, Table 3.4-1 (10/96).

The annual CO emission limitation was established by the following methodology:

$$\text{CO: } 8760 \text{ hrs/yr} \times 3.12 \text{ lb/hr} \times 1 \text{ ton}/2000 \text{ lbs} = 13.67 \text{ tons/yr}$$

If required, the permittee shall demonstrate compliance with the hourly CO emission limitation through emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 10.

- e. **Emissions Limitation:**
 0.33 lb of TOC emissions/hr; 1.45 ton/year of TOC emissions

Applicable Compliance Methods:

The hourly emission limitation is based upon the emissions unit's potential to emit and was established by multiplying the emissions unit's total heat input of 3.672 mmBtu/hr by the emission factor of 0.09 lb of VOC emissions/mmBtu. This emission factor is from AP-42, Fifth Edition, Section 3.4, Table 3.4-1 (10/96).

The annual VOC emission limitation was established by the following methodology:

$$\text{OC: } 8760 \text{ hrs/yr} \times 0.33 \text{ lb/hr} \times 1 \text{ ton}/2000 \text{ lbs} = 1.45 \text{ ton/yr}$$

If required, the permittee shall demonstrate compliance with the hourly TOC emissions limitation through emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 25 or 25A, as appropriate.

- f. **Emissions Limitation:**
 0.062 lb of PE/mmBtu and 0.21 lb of PM10 emissions/hr; 1.00 TPY of PE and 0.92 TPY of PM10 emissions

Applicable Compliance Method:

The hourly emissions limitations are based upon the emissions unit's potentials to emit and were established through the OAC rule 3745-17-11 for PE and for PM10 by multiplying the emissions unit's total heat input of 3.672 MMBTU/hr by the emissions factor of 0.0573 lb of PM10/mmBtu. The PM10 emission factor is from AP-42, Fifth Edition, Section 3.4, Table 3.4-1 (10/96).

15

Harris

PTI A

Issued: 3/9/2006

Emissions Unit ID: P001

The annual PE and PM10 emissions limitations were established by the following methodology:

PE: $8760 \text{ hrs/yr} \times 0.23 \text{ lb/hr} \times 1 \text{ ton}/2000 \text{ lbs} = 1.00 \text{ ton/yr}$

PM10: $8760 \text{ hrs/yr} \times 0.21 \text{ lb/hr} \times 1 \text{ ton}/2000 \text{ lbs} = 0.92 \text{ ton/yr}$

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

If required, the permittee shall demonstrate compliance with the hourly PM10 emissions limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 40 CFR Part 51, Appendix M, Method 201.

2. Compliance with the fuel sulfur content limitation in term and condition B.1 shall be demonstrated by the record keeping requirements specified in term and condition C.2.

F. Miscellaneous Requirements

None