



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
STARK 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: 15-01624**

**Fac ID: 1576001915**

**DATE: 3/2/2006**

Proper Landscape/Design Build  
Ty Croxton  
4771 Fulton Road NW  
Canton, OH 44718

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

Canton LAA



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**Permit To Install  
Terms and Conditions**

**Issue Date: 3/2/2006  
Effective Date: 3/2/2006**

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**FINAL PERMIT TO INSTALL 15-01624**

Application Number: 15-01624  
Facility ID: 1576001915  
Permit Fee: **\$0**  
Name of Facility: Proper Landscape/Design Build  
Person to Contact: Ty Croxton  
Address: 4771 Fulton Road NW  
Canton, OH 44718

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**4771 Fulton Road NW  
Canton, Ohio**

Description of proposed emissions unit(s):  
**Diesel powered tub grinder with 500 hp Caterpillar diesel.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. Permit to Install General Terms and Conditions

#### 1. Compliance Requirements

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

#### 2. Reporting Requirements

The permittee shall submit required reports in the following manner:

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

#### 3. Records Retention Requirements

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

#### 4. Inspections and Information Requests

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

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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

Emissions Unit ID: P001

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>
NOx	7.8
PE	1.1
CO	1.7
OC	0.6
SO2	0.5



OAC rule 3745-17-11 (B)(5)(a)	<u>Applicable Emissions Limitations/Control Measures</u>	
OAC rule 3745-18-06(G)	<p>Fugitive dust emissions:</p> <p>The particulate emissions (PE) shall not exceed 0.5 ton/yr from the compost operation.</p> <p>Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. (See sections A.2.b through A.2.d below.)</p> <p>There shall be no visible particulate emissions from the tub grinder, the processed mulch pile(s), conveyor transfer point(s), and the loading and unloading activities associated with the tub grinder.</p> <p>Emissions from the diesel engine:</p> <p>The nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 15.5 lbs/hr and 7.8 tons/yr.</p> <p>The carbon monoxide (CO) emissions shall not exceed 3.35 lbs/hr and 1.7 tons/yr.</p> <p>The organic compound (OC) emissions shall not exceed 1.25 lb/hr and 0.6 ton/yr.</p>	<p>The PE shall not exceed 1.10 lb/hr and 0.6 ton/yr.</p> <p>The sulfur dioxide (SO<sub>2</sub>) emissions shall not exceed 1.05 lb/hr and 0.5 ton/yr.</p> <p>See sections B.1 and B.2 below.</p> <p>Compliance with this rule also includes compliance with OAC rules 3745-17-07(A), 3745-17-11(B)(5)(a) and 3745-18-06(G).</p> <p>Visible PE from the diesel engine exhaust stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.</p> <p>Not applicable in non-Appendix A area.</p> <p>Not applicable in non-Appendix A area.</p> <p>PE from a small internal combustion engine shall not exceed 0.310 lb per MMBTU of actual heat input.</p> <p>Stationary internal combustion engines which have rated heat input capacities equal to, or less than, ten MMBTU 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</p>

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**Prope**

**PTI A**

**Issued: 3/2/2006**

Emissions Unit ID: **P001**

the Administrative Code.

## 2. Additional Terms and Conditions

**2.a** This facility shall not cause a nuisance per Ohio Administrative Code 3745-15-07.

**2.b** The permittee shall employ best available control measures for the tub grinder, the processed mulch pile(s), conveyor transfer point(s), and the loading and unloading activities associated with the tub grinder for the purpose of ensuring compliance with the "no visible emissions" requirement. The permittee shall employ water on an "as needed" basis to ensure compliance.

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

**2.c** 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 "no visible emissions" requirement. Any required implementation of the control measure(s) shall continue 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.

## B. Operational Restrictions

1. The diesel engine shall be operated with diesel fuel with a sulfur content less than 0.5% by weight
2. For the second and succeeding calendar years after the first calendar year in which this PTI is issued, the maximum annual (calendar year) operating hours for this emissions unit shall not exceed 1000.

## 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</u>	<u>minimum inspection frequency</u>
grinder	hourly
conveyor transfer point(s)	hourly
loading and unloading activities associated with the tub grinder	hourly
processed mulch piles	daily

2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
3. The permittee may, upon receipt of written approval from the Canton local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
  - c. the dates the control measure was implemented;
  - d. on a calendar quarter basis, the total number of days the control measure was implemented; and
  - e. the name of the person reporting each observation.

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

5. The permittee shall maintain a record of the sulfur content of each shipment of diesel fuel received for burning in this emissions unit.

6. The operations log shall be maintained on site.
7. The permittee shall maintain monthly records of the operating hours for this emissions unit.

#### **D. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
  - a. each day when visible emissions were observed, and at which location;
  - b. each day during which an inspection was not performed by the required frequency; and
  - c. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
2. The quarterly deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
3. The permittee shall submit a deviation report for each day when a fuel other than diesel fuel of more than 0.5% sulfur was burned in this emissions unit. This report shall be submitted within 30 days after the deviation occurred.
4. After the first calendar year in which this PTI is issued, the permittee shall submit an annual report which identifies any exceedances of the monthly operating hours limitation, as well as the corrective actions that were taken to achieve compliance. This report shall be submitted by January 31 of the year following the first calendar year in which this PTI is issued.

For the second and succeeding calendar years after the first calendar year in which this PTI is issued, the permittee shall submit annual reports which identify any exceedances of the annual operating hours limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each such year.

#### **E. Testing Requirements**

1. Compliance with the emission limitations in Section A.I. of these terms and conditions

shall be determined in accordance with the following methods:

- a. Emissions Limitations:  
Fugitive dust emissions:  
The particulate emissions (PE) shall not exceed 0.5 ton/yr from the compost operation.

Applicable Compliance Method:

Emission factor from the RACM Table 2.17-1 = 0.35 lb PE/ton  
Control Efficiency for moisture = 80%  
Maximum Production = 25 cubic yards/hr  
Density of compost = 0.5 ton/cubic yard  
Annual operating hours = 1,000 hrs

PM emissions = 0.35 lb PM/ton X 0.5 ton/cubic yard X 25 cubic yards/hr X  
1,000 hrs/yr X 1 ton PM/2000 lbs PM X (1 - 0.8) control efficiency

PM emissions = 0.50 ton/yr

- b. Emissions Limitations:  
There shall be no visible particulate emissions from the tub grinder, the processed mulch pile(s), conveyor transfer point(s), and the loading and unloading activities associated with the tub grinder.

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.

- c. Emissions Limitations:  
Emissions from the diesel engine:  
NOx emissions shall not exceed 15.5 lbs/hr; CO emissions shall not exceed 3.35 lbs/hr; OC emissions shall not exceed 1.25 lb/hr; PE shall not exceed 1.10 lb/hr; and, SO2 emissions shall not exceed 1.05 lb/hr.

Applicable Compliance Method:

Compliance with the hourly emission limitations identified above for the diesel

Emissions Unit ID: **P001**

engine shall be determined by using the emission factors from AP-42, 5th Edition (October 1996), Table 3.3-1, "Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines" and SCC 2-02-001-02 Internal Combustion Engines: Industrial - Distillate Oil (Diesel) - Reciprocating along with the rated capacity of the diesel engine (500 HP).

NOx EF = 0.031 lb NOx/hp-hr  
 CO EF = 0.0067 lb CO/hp-hr  
 OC EF = 0.0025 lb OC/hp-hr  
 PM EF = 0.0022 lb PM/hp-hr  
 SO2 EF = 0.0021 lb SO2/hp-hr

Hourly Emission Rates, lbs/hr

NOx emissions = 0.031 lb NOx/hp-hr X 500 hp = 15.5 lbs NOx/hr  
 CO emissions = 0.0067 lb CO/hp-hr X 500 hp = 3.35 lbs CO/hr  
 OC emissions = 0.0025 lb OC/hp-hr X 500 hp = 1.25 lbs OC/hr  
 PM emissions = 0.0022 lb PM/hp-hr X 500 hp = 1.10 lbs PM/hr  
 SO2 emissions = 0.0021 lb SO2/hp-hr X 500 hp = 1.05 lbs SO2/hr

- d. Emissions from the diesel engine:  
 NOx emissions shall not exceed 7.8 tons per year; CO emissions shall not exceed 1.7 tons per year; OC emissions shall not exceed 0.6 ton per year; PE shall not exceed 0.6 ton per year; and, SO2 emissions shall not exceed 0.5 ton per year.

Applicable Compliance Method:

Compliance with the annual emission limitations identified above for the diesel engine shall be determined by using the above hourly emissions rates which are multiplied by the restricted operating hours (1,000 hours/Year) and converted to tons to obtain the yearly emission rates.

Annual Emissions Rates, tons/yr

NOx emissions = 15.5 lbs NOx/hr X ton/2000 lbs X 1000 hrs/yr = 7.8 tons/yr  
 CO emissions = 3.35 lbs CO/hr X ton/2000 lbs X 1000 hrs/yr = 1.7 tons/yr  
 OC emissions = 1.25 lbs OC/hr X ton/2000 lbs X 1000 hrs/yr = 0.6 ton/yr  
 PM emissions = 1.10 lbs OC/hr X ton/2000 lbs X 1000 hrs/yr = 0.6 ton/yr  
 SO2 emissions = 1.05 lbs SO2/hr X ton/2000 lbs X 1000 hrs/yr = 0.5 ton/yr

- e. Emissions Limitations:  
Visible PE from the diesel engine exhaust stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Test Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

- f. Emissions Limitations:  
PE from a small internal combustion engine shall not exceed 0.310 lb per MMBTU of actual heat input.

Applicable Compliance Method:

Compliance with the emissions limitation for the diesel engine identified above shall be determined by using the emission factor for particulate from AP-42, 5th Edition (October 1996), Table 3.3-1, "Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines." This emission factor is 0.31 lb particulate/MMBTU (fuel input) for diesel fuel. (Note: this emission factor is equivalent to the emission factor of 0.0022 lb PM/hp-hr.)

**F. Miscellaneous Requirements**

None