



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL CERTIFIED MAIL  
STARK COUNTY**

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: 15-01413**

**DATE: 7/13/00**

Canton Topsoil  
Daniel Deckerd  
3413 Middlebranch Avenue NE  
Canton, OH 44705

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

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

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

Environmental Review Appeals Commission  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: USEPA

Canton LAA



**Permit To Install**

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**FINAL PERMIT TO INSTALL 15-01413**

Application Number: 15-01413  
APS Premise Number: 1576001887  
Permit Fee: **\$2000**  
Name of Facility: Canton Topsoil  
Person to Contact: Daniel Deckerd  
Address: 3413 Middlebranch Avenue NE  
Canton, OH 44705

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**3413 Middlebranch Avenue NE**  
**Plain Twp, Ohio**

Description of proposed emissions unit(s):  
**Topsoil filter, separator, grinder and roadways.**

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency



Director

## Part I - GENERAL TERMS AND CONDITIONS

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

#### 1. Compliance Requirements

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

#### 2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

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

#### 3. Records Retention Requirements

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

#### 4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any

**Canton Topsoil**  
**PTI Application: 15-01413**  
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applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

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

**6. Permit Transfers**

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

**7. Air Pollution Nuisance**

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

**8. Termination of Permit to Install**

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

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

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

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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 are inadequate 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 prove to be inadequate or cannot meet applicable standards.

**10. Public Disclosure**

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

**11. Applicability**

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

**12. Best Available Technology**

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

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

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

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**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>
Particulates	4
PM10	2

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

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F001 - Topsoil filter, separator, grinder.	OAC rule 3745-31-05 (A)(3)	Visible particulate emissions of fugitive dust from the topsoil filter, separator and grinder shall not exceed ten percent opacity as a three-minute average.
<b>Appendix A area</b>		Particulate emissions shall not exceed 2 tons/year.
		PM10 emissions shall not exceed 1 ton/year.
	OAC rule 3745-17-07(B)(1)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-08.
	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).
		Best available control measures shall be employed that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Section A.2.a).

**2. Additional Terms and Conditions**

- 2.a.** When necessary, water shall be sprayed onto the topsoil being handled to minimize or eliminate at all times visible emissions of fugitive dust generated by processing the topsoil and to ensure compliance with the above-mentioned visible emission limitation.

**B. Operational Restriction**

1. This emissions unit shall not be operated more than 500 hours in any calendar year.

**C. Monitoring and/or Record Keeping Requirements**

1. On days this emissions unit operates, the permittee shall perform daily observations to determine whether visible emissions of fugitive dust are being generated by the processing of the topsoil.
2. The permittee shall maintain records of the following information:
- a. the date and reason any required daily observation was not performed;
  - b. the date of each observation 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 the moisture content of the topsoil was sufficient to not require the control measures.
3. The permittee shall maintain daily records of the number of hours this emissions unit was operated.

**D. Reporting Requirements**

1. The permittee shall submit deviation reports that identify either of the following occurrences:
- a. each day when this emissions unit was operated during which an observation was not performed; and,
  - b. each instance when a control measure that was to be implemented as a result of an

observation was not implemented.

The deviation reports shall be submitted in accordance with paragraph A.2. of the General Terms and Conditions.

2. The permittee shall submit an annual deviation report by January 31 of each year if this emissions unit operated more than 500 hours in the previous calendar year.

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

1. Compliance with the emissions limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation

Visible particulate emissions of fugitive dust from the topsoil filter, separator and grinder shall not exceed ten percent opacity, as a three-minute average.

Applicable Compliance Method:

If required, Method 9 of 40 CFR Part 60, Appendix A.

- b. Emission Limitation

Particulate emissions shall not exceed 2 tons/year.

Applicable Compliance Method

Use uncontrolled lime secondary crushing/screening emission factor from SCC 30201602 of 0.62 lb PM/ton. Production capacity is 30 tons/hr.  $30 \text{ tons/hr} \times 0.62 \text{ lb PM/ton} = 18.6 \text{ lbs PM/hr}$   $\times 0.1$  (90% control efficiency damp topsoil) = 1.86 lbs PM/hr.  
 $500 \text{ hrs/yr} \times 1.86 \text{ lbs PM/hr} = 930 \text{ lbs PM/yr}$  or 0.465 ton PM/yr

- c. Emission Limitation

PM10 emissions shall not exceed 1 ton/year.

Applicable Compliance Method

Use uncontrolled lime secondary crushing/screening emission factor from SCC 30201602 of 0.113 lb PM10/ton. Maximum PWR is 30 tons/hr.  $30 \text{ tons/hr} \times 0.113 \text{ lb PM10/ton} = 3.39 \text{ lbs PM10/hr}$   $\times 0.1$  (90% control efficiency damp topsoil) = 0.339 lb PM10/hr.  
 $0.339 \text{ lb PM10/hr} \times 500 \text{ hrs/yr} = 169.5 \text{ lbs PM10/yr}$  or 0.085 ton PM10/yr

#### **F. Miscellaneous Requirements**

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**Canton Topsoil**  
**PTI Application: 15-01413**  
**Issued**

**Facility ID: 1576001887**

**Emissions Unit ID: F001**

None

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

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
F002 - Unpaved roadways	OAC rule 3745-31-05(A)(3)
<b>Appendix A area</b>	OAC rule 3745-17-07(B)(7)(a)(ii)*
	OAC rule 3745-17-08(B), (B)(2)

**Canto****PTI A****Issued: 7/13/00**Emissions Unit ID: **F002**

Applicable Emissions  
Limitations/Control Measures

Particulate emissions shall not exceed 2 tons/year.

PM10 emissions shall not exceed 1 ton/year.

On unpaved roadways and parking areas, there shall be no visible emissions except for three minutes during any 60-minute period.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-08(B), (B)(2).

The emission limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

Best available control measures shall be employed that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.a through A.2.d).

- \* This rule citation reflects the settlement agreement reached between Ohio EPA and the Ohio Electric Utilities concerning the Utilities' appeal to the Ohio Environmental Review Appeals Commission of the 1991 revisions and additions to OAC Chapter 3745-17. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA and the Ohio Electric Utilities have agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of these limitations as a revision to the Ohio SIP for particulate matter.

## **2. Additional Terms and Conditions**

- 2.a.** All unpaved roadways and parking areas shall be treated with water and/or suitable dust suppression chemicals to minimize or eliminate at all times visible emissions of fugitive dust generated by vehicular traffic and to ensure compliance with the above-mentioned visible emission limitation.
- 2.b.** The control measures shall be implemented at frequencies that will minimize or eliminate visible emissions of fugitive dust generated by vehicular traffic and ensure compliance with the above-mentioned visible emission limitations, and the needed frequencies of implementation shall be determined by the permittee's inspections. It is further understood that on any specific day, implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to minimize or eliminate visible emissions of fugitive dust generated by vehicular traffic and to ensure compliance with the above-mentioned visible emission limitations.
- 2.c.** Any material carried off of the permittee's property and deposited onto public streets by vehicular traffic or by erosion by water, etc., shall be promptly removed and disposed of properly to minimize or prevent resuspension.
- 2.d.** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary to minimize or eliminate visible emissions of fugitive dust.
- 2.e.** This permit does not apply to dedicated public roadways.

## **B. Operational Restriction**

None

**C. Monitoring and/or Record Keeping Requirements**

1. The permittee shall perform daily inspections of the roadways and parking areas. The purpose of the inspections is to determine the need for implementing the control measures specified in Section A.I.2. 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 minimize or eliminate visible emissions of fugitive dust generated by vehicular traffic and to ensure compliance with the above-mentioned visible emission limitations. 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.
2. 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.

**D. Reporting Requirements**

1. The permittee shall submit deviation reports that identify either 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 paragraph A.1.c. of the General Terms and Conditions.

## **E. Testing Requirements**

1. Compliance with the emissions limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation

On unpaved roadways and parking areas, there shall be no visible emissions except for three minutes during any 60-minute period.

**Applicable Compliance Method:**

Compliance with the emission limitations for the paved and unpaved roadways and parking areas identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.\*

\* The procedures relating to Test Method 22 reflect the settlement agreement reached between Ohio EPA and the Ohio Electric Utilities concerning the Utilities' appeal to the Ohio Environmental Review Appeals Commission of the 1991 revisions and additions to OAC Chapter 3745-17. The revised rule containing the procedures was adopted by the Director of Ohio EPA in December, 1997. The USEPA and the Ohio Electric Utilities have agreed to consider the procedures as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of the procedures as a revision to the Ohio SIP for particulate matter.

- b. Emission Limitation

Particulate emissions shall not exceed 2 tons/year.

**Applicable Compliance Method**

Using equation from AP-42 13.2.2-3

$$E = k (s/12)^a (W/3)^b / (M/0.2)^c$$

E = size-specific emission factor (lb/VMT)

s = surface material silt content(%)

W = mean vehicle weight (tons)

M = surface material moisture content (%)

k = 10

a = 0.8

b = 0.5

**Canton Topsoil****PTI Application: 15-01412****Issued****Facility ID: 1576001887**Emissions Unit ID: **F002**

$$c = 0.4$$

$$E = 10(8.5/12)^{0.8}(12/3)^{0.5}/(2/0.2)^{0.4}$$

$$E = 6.08 \text{ lbs PM/VMT}$$

$$\text{VMT} = 200 \text{ miles/yr}$$

$$200 \text{ miles/yr} \times 6.08 \text{ lbs PM/VMT} = 1216 \text{ lbs PM/yr or } 0.61 \text{ ton PM/yr}$$

- c. Emission Limitation  
 PM10 emissions shall not exceed 1 ton/year.

Applicable Compliance Method  
 Use AP42 to determine emissions.

$$E = k (s/12)^a (W/3)^b / (M/0.2)^c$$

E = size-specific emission factor (lb/VMT)

s = surface material silt content (%)

W = mean vehicle weight (tons)

M = surface material moisture content (%)

k = 2.6

a = 0.8

b = 0.4

c = 0.3

$$E = 2.6(8.5/12)^{0.8}(12/3)^{0.4}/(2/0.2)^{0.3}$$

$$E = 1.72 \text{ lbs PM10/VMT}$$

$$\text{VMT} = 200 \text{ miles/yr}$$

$$200 \text{ miles/yr} \times 1.72 \text{ lbs PM10/VMT} = 344 \text{ lbs PM10/yr or } 0.172 \text{ ton PM10/yr}$$

## **F. Miscellaneous Requirements**

None

**NEW SOURCE REVIEW FORM B**

PTI Number: 15-01413 Facility ID: 1576001887

FACILITY NAME Canton Topsoil

FACILITY DESCRIPTION Topsoil filter, separator, grinder and roadways. CITY/TWP Plain Twp

SIC CODE 0711 SCC CODE \_\_\_\_\_ EMISSIONS UNIT ID F001

EMISSIONS UNIT DESCRIPTION Topsoil filter, separator, grinder.

DATE INSTALLED 1999

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				2
PM <sub>10</sub>	Attainment				1
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

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

**Enter Determination** Limit in number of hours this emissions unit is allowed to operate. Use of water to limit dust.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

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

**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 X NO

IDENTIFY THE AIR CONTAMINANTS: \_\_\_\_\_

**NEW SOURCE REVIEW FORM B**

PTI Number: 15-01413

Facility ID: 1576001887

FACILITY NAME Canton Topsoil

FACILITY DESCRIPTION Tonsoil filter. separator. grinder and

CITY/TWP Plain Twn

Emissions Unit ID: **F002**

SIC CODE 0711

SCC CODE

EMISSIONS UNIT ID

F002

EMISSIONS UNIT DESCRIPTION Roadways.

DATE INSTALLED 1999

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				2
PM <sub>10</sub>	Attainment				1
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS?

NESHAP?

PSD?

OFFSET POLICY?

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

Enter Determination Dust suppressant application

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY?

No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT?

\$ NA

**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

X

NO

IDENTIFY THE AIR CONTAMINANTS:

20 NEW SC

PTI Num

FACILITY

Emissions Unit ID: F002

FACILITY DESCRIPTION Topsoil filter, separator, grinder and roadways.

CITY/TWP Plain Twp

Please describe any hard copy information is being submitted with this recommendation (Please send hard copy information to Pam McGraner, DAPC Central Office - Air Quality Modeling and Planning):

PTI application

Please provide any additional permit specific notes as you deem necessary:

Calculations

Unpaved Roadways

Using equation from AP-42 13.2.2-3

PM

E = k (s/12)^a(W/3)^b/(M/0.2)^c

E = size-specific emission factor (lb/VMT)

s = surface material silt content(%)

W = mean vehicle weight (tons)

M = surface material moisture content (%)

k = 10

a = 0.8

b = 0.5

c = 0.4

E = 10(8.5/12)^0.8(12/3)^0.5/(2/0.2)^0.4

E = 6.08 lbs PM/VMT

VMT = 200 miles/yr

200 miles/yr x 6.08 lbs PM/VMT = 1216 lbs PM/yr

PM10

E = k (s/12)^a(W/3)^b/(M/0.2)^c

E = size-specific emission factor (lb/VMT)

s = surface material silt content(%)

W = mean vehicle weight (tons)

**2 NEW SOURCE REVIEW FORM B**

PTI Number: 15-01413

Facility ID: 1576001887

FACILITY NAME Canton Topsoil

FACILITY DESCRIPTION Tonsoil filter. separator. grinder and

CITY/TWP Plain Twn

Emissions Unit ID: **F002**

M = surface material moisture content (%)

k = 2.6

a = 0.8

b = 0.4

c = 0.3

$$E = 2.6(8.5/12)^{0.8}(12/3)^{0.4}/(2/0.2)^{0.3}$$

$$E = 1.72 \text{ lbs PM}_{10}/\text{VMT}$$

$$\text{VMT} = 200 \text{ miles/yr}$$

$$200 \text{ miles/yr} \times 1.72 \text{ lbs PM}_{10}/\text{VMT} = 344 \text{ lbs PM}_{10}/\text{yr}$$

**F001 Topsoil processing**

Will use emission factor for lime secondary crushing/screening SCC 30201602

Uncontrolled Emission Factors

0.62 lbs PM/ton and 0.113 lb PM<sub>10</sub>/ton

Production capacity = 30 tons/hr

**PM**

$$30 \text{ tons/hr} \times 0.62 \text{ lb PM/ton} = 18.6 \text{ lbsPM/hr} \times 0.1 \text{ (90\% control efficiency damp topsoil)} = 1.86 \text{ lbs PM/hr}$$

$$500 \text{ hrs/yr} \times 1.86 \text{ lbs PM/hr} = 930 \text{ lbs PM/yr or } 0.465 \text{ ton PM/yr}$$

**PM<sub>10</sub>**

$$30 \text{ tons/hr} \times 0.113 \text{ lb PM}_{10}/\text{ton} = 3.39 \text{ lbs PM}_{10}/\text{hr} \times 0.1 \text{ (90\% control efficiency damp topsoil)} = 0.339 \text{ lb PM}_{10}/\text{hr}$$

$$0.339 \text{ lb PM}_{10}/\text{hr} \times 500 \text{ hrs/yr} = 169.5 \text{ lbs PM}_{10}/\text{yr or } 0.085 \text{ ton PM}_{10}/\text{yr}$$

**Permit To Install Synthetic Minor Write-Up**

NONE

**Please fill in the following for this permit:**

28 NEW SC

PTI Num

FACILITY

FACILITY DESCRIPTION

Topsoil filter, separator, grinder and  
roadways.

CITY/TWP

Emissions Unit ID: **F002** \_\_\_\_\_

Plain Twp

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**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
Particulates	4
PM10	2