



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
CLINTON 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: 05-12285

DATE: 10/10/2002

Melvin Stone Co
Dennis Garrison
PO Box 158
Sabina, OH 45169

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,

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA

SWDO



**Permit To Install
Terms and Conditions**

**Issue Date: 10/10/2002
Effective Date: 10/10/2002**

FINAL PERMIT TO INSTALL 05-12285

Application Number: 05-12285
APS Premise Number: 0514000147
Permit Fee: **\$3600**
Name of Facility: Melvin Stone Co
Person to Contact: Dennis Garrison
Address: PO Box 158
Sabina, OH 45169

Location of proposed air contaminant source(s) [emissions unit(s)]:
**3581 St Rt 72
Sabina, Ohio**

Description of proposed emissions unit(s):
Portable canica crusher.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

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

2. Reporting Requirements Related to Monitoring and Record keeping Requirements

The permittee shall submit required reports in the following manner:

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

3. Records Retention Requirements

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

4. Inspections and Information Requests

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

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

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

6. Permit Transfers

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

7. Air Pollution Nuisance

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

8. Termination of Permit to Install

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

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

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Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

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

11. Applicability

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

12. Best Available Technology

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

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

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

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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>
PE	5.81
SO _x	1.61
NO _x	24.41
VOC	1.95
CO	5.26

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Facility ID: 0514000147

Emissions Unit ID: B006

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>	OAC rule 3745-17-10(B)(1)
B006 - 450 HP Diesel Engine (Serial Number BEM00315)	OAC rule 3745-31-05(A)(3)	OAC rule 3745-18-06(B)

Applicable Emissions
Limitations/Control Measures

1.0 lb particulate emissions
(PE)/hr;
1.73 tons PE/yr;

1.0 lb sulfur oxides (SO_x)/hr;
1.61 tons SO_x/yr;

13.95 lbs nitrogen oxides (NO_x)/hr;
24.41 tons NO_x/yr;

1.11 lbs volatile organic
compounds (VOCs)/hr;
1.95 tons VOC/yr;

3.01 lbs carbon monoxide (CO)/hr;
5.26 tons CO/yr;

Visible particulate emissions shall
not exceed twenty percent (20%)
opacity, as a three minute average,
except during the startup and
shut-down of equipment.

The requirements of this rule also
include compliance with the
requirements of OAC rule
3745-17-07(A)(1) and OAC rule
3745-17-10 (B)(1).

PE shall not exceed 0.020
lb/MMBtu of actual heat input.

Exempt

2. Additional Terms and Conditions

Emissions Unit ID: B006

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of #2 fuel oil (diesel) and compliance with specified emission limits.
- 2.b The hourly emission limitations are based upon the emissions unit's Potential to Emit (PTE). Therefore, no hourly records of operation are required to demonstrate compliance with this limit.

B. Operational Restrictions

1. The permittee shall burn only number two fuel oil (diesel) in this emissions unit.
2. The maximum annual operating hours for this emissions unit shall not exceed 3,500 based upon an annual summation of the operating hours.

C. Monitoring and/or Record keeping Requirements

1. For each day during which the permittee burns a fuel other than number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall maintain monthly records of the operating hours for this emissions unit.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit annual reports that identify any exceedances of the annual hours of operation limitation, as well as the corrective actions that were taken to achieve compliance. If no exceedances occurred during the reporting period then a report is required stating so. These reports shall be submitted by January 31 of each year.
3. The permittee shall submit deviation (excursion) reports which identify all exceedances of the annual: 1.73 tons PE/yr; 1.61 tons SO_x/yr; 24.41 tons NO_x/yr; 1.95 tons VOC/yr; 5.26 tons CO/yr; emissions limitations for this emissions unit.

E. Testing Requirements

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

- a. Emission Limitation:

20% opacity

Applicable Compliance Method:

Compliance with OAC rule 3745-17-07(A)(1) shall be determined using the methods outlined in US EPA Reference Test Method 9 (40 CFR Part 60, Appendix A).

- b. Emission Limitation:

1.0 lb PE/hr;
1.73 tons PE/yr;
1.0 lb SO_x/hr;
1.61 tons SO_x/yr;
13.95 lbs NO_x/hr;
24.41 tons NO_x/yr ;
1.11 lbs VOCs/hr;
1.95 tons VOC/yr;
3.01 lbs CO/hr;
5.26 tons CO/yr;

Applicable Compliance Method:

Hourly compliance shall be determined by multiplying the air contaminate's respective emissions factor by the unit's horsepower (450).

Annual compliance shall be determined by multiplying the air contaminate's respective emissions factor by the unit's horsepower (450). The sum of the hourly emissions rate should then be multiplied by the annual hours of operation (3,500 hrs).

Emission factors from US EPA reference document AP-42, Table 3.3-1, October, 1996 edition.

<u>Pollutant</u>	<u>Emission factor</u>
PE	0.00220 lb/Hp-hr
SO _x	0.00205 lb/Hp-hr
NO _x	0.031 lb/Hp-hr
VOC	0.00247 lb/Hp-hr
CO	0.00668 lb/Hp-hr

F. Miscellaneous Requirements

1. Notice to Relocate a Portable or Mobile Source

Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

- a. The portable emissions unit is equipped with the best available control technology for such portable emissions unit;
- b. The portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- c. The applicant has provided proper notice of intent to relocate the portable emissions unit to the Ohio EPA-Southwest District Office, Division of Air Pollution Control and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
- d. In the Ohio EPA-Southwest District Office, Division of Air Pollution Control's and the appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

- e. The portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
- f. The portable emissions unit is equipped with best available technology;
- g. The portable emission unit owner has identified the proposed site to the Ohio EPA;

- h. The Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
- i. A public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;
- j. The owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
- k. The portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to A.VI.1. above, shall be valid for no longer than three years and are subject to renewal.

In order for the Department of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Ohio EPA-Southwest District Office, Division of Air Pollution Control and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Ohio EPA-Southwest District Office, Division of Air Pollution Control and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive the Ohio EPA's approval prior to relocation of the emissions unit may result in fines and civil penalties.

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>
F027 - 120 ton/hr Portable Canica Crusher	OAC rule 3745-31-05(A)(3)	0.084 lb particulates emissions (PE)/hr; 0.36 ton PE /yr See A.2.c 15% opacity
	NSPS 40 CFR Part 60, Subpart OOO	Exempt
	OAC rule 3745-17-11(B)	The limit based on this rule is less stringent than the particulate limit established above as Best Available Technology (BAT) under 3745-31-05(A)(3).
	OAC rule 3745-17-08(B)	Reasonably available control measures (RACM). (See Sections A.2.b. and A.2.c.)

2. Additional Terms and Conditions

- 2.a The hourly particulate emission limitation of 0.084 pounds and yearly particulate emission limitation of 0.36 ton are based upon the emissions unit’s Potential to Emit (PTE). Therefore, no hourly or yearly records of operation are required to demonstrate compliance with this limit.
- 2.b The application of RACM is applicable only when the emissions unit is located in an

Appendix A area as specified in OAC rule 3745-17-08.

- 2.c The aggregate materials processed through the primary crusher shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust from the crusher and transfer point(s), so that compliance with the opacity requirement(s) specified above is continuously maintained and meets the requirements of BAT.

B. Operational Restrictions

1. Water shall be applied at all points necessary to ensure compliance with the visible emissions limitation.

C. Monitoring and/or Record keeping Requirements

1. The permittee shall conduct visible emissions evaluations at a minimum annually or upon relocation of the emissions unit. The visible emissions evaluations shall be performed during the period of May 1 through September 30.
2. The permittee shall perform daily checks, when each piece of crushing equipment is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from each crushing operation. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. Whether the emissions are representative of normal operations;
 - b. If the emissions are not representative of normal conditions, the cause of the abnormal emissions;
 - c. The total duration of any visible emissions incident; and
 - d. Any corrective actions taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) of any Method 9 evaluation that did not demonstrate compliance with the opacity requirement(s) specified above. The notification shall be in writing and shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the exceedance occurs.

2. The permittee shall submit quarterly deviation (excursion) reports which identify the occurrences identified below:
 - 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.

These reports are due by the date described in Part 1-General Terms and Conditions of this permit under section (A)(2).

E. Testing Requirements

1. Compliance with the emissions limitations in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation-
0.084 lb PE/hr

Applicable Compliance Method-
Compliance shall be determined by multiplying the maximum hourly production rate of 120 tons/hour by the emissions factor of 0.00070 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95).
 - b. Emission Limitation-
0.36 ton PE/yr

Applicable Compliance Method-
Compliance shall be determined by multiplying the maximum hourly production rate (120 tons/hr) and by the emissions factor of 0.00070 lb/ton, as specified in AP-42, Table 11.19.2-2 (1/95). The resultant should be multiplied by 8,760 hours per year and divided by 2,000 pounds per ton.
 - c. Emission Limitation-
15% opacity

Applicable Compliance Method-

Compliance shall be determined by visible emissions evaluations performed using the methods and procedures specified in USEPA Reference Method 9.

F. Miscellaneous Requirements

1. If probable cause exists indicating the source is causing or contributing to a nuisance in violation of Ohio Administrative Code rule 3745-15-07, the owner or operator of this emissions unit shall be required to submit and implement a control program which will bring this source into compliance.

2. Notice to Relocate a Portable or Mobile Source

Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

- a. The portable emissions unit is equipped with the best available control technology for such portable emissions unit;
- b. The portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- c. The applicant has provided proper notice of intent to relocate the portable emissions unit to the Ohio EPA, Southwest District Office and the appropriate field office having jurisdiction over the new site within a minimum of 30 days prior to the scheduled relocation; and,
- d. In Ohio EPA, Southwest District Office's and the appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

OR

Under OAC rule 3745-31-05(F), portable or mobile sources may relocate to sites that have been pre-approved by the Director. The permittee may relocate the portable or mobile sources listed in this permit if:

- a. The permittee has applied for and obtained a site approval for the new site from the Director;
- b. The site approval is current and effective;

- c. The permittee has complied with all of the conditions and restrictions contained in the site approval;
 - d. The permittee has provided the appropriate Ohio EPA District Office and/or local air agency having jurisdiction over the new site at least 15 days written notice of the relocation.

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>
F028 - Aggregate Storage Pile	OAC rule 3745-31-05(A)(3)	3.67 tons particulate emissions/yr No visible emissions except for one minute in any hour Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b, A.2.c and A.2.f)
	OAC rule 3745-17-07 (B)(6)	The limit based on this rule is less stringent than the particulate limit established above as Best Available Technology (BAT) under 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 are listed below:

All

- 2.b The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit

Emissions Unit ID: F028

application, the permittee has committed to treat the load-in and load-out materials with water to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.c The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- 2.d The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee’s permit application, the permittee has committed to treat each storage pile with water to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.f Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

B. Operational Restrictions

None

C. Monitoring and/or Record keeping Requirements

- 1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

<u>Storage pile identification</u>	<u>Minimum load-in inspection frequency</u>
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All Daily

- 2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

<u>Storage pile identification</u>	<u>Minimum load-out inspection frequency</u>
All	Daily

- 3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

<u>Storage pile identification</u>	<u>Minimum wind erosion inspection frequency</u>
All	Daily

- 4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
- 5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
- 6. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating

experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

7. The permittee shall maintain records of the following information:
 - a. The date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. The date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. The dates the control measures were implemented; and,
 - d. On a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 7.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

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.

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

- a. Emission Limitation-
3.67 tons/year particulate

Applicable Compliance Method-
Compliance shall be determined by using AP-42 13.2.4-3 emissions factor:

$$k = 0.74$$

$$U = 9.1 \text{ mph}$$

$$M = 4.0\%$$

$$\text{Emissions, lb/tn} = k(0.0032)[U/5^{1.3}/(M/2)^{1.4}]$$

$$= 0.74(0.0032)[(9.1 \text{ mph}/5)^{1.3} / (4.0/2)^{1.4}]$$

$$= 0.002 \text{ lb/tn}$$

Storage Load-in of Base Aggregate Storage Pile - 100,000 TPY

$$0.002 \text{ lb/tn (100,000 TPY)}(1 \text{ tn}/2,000 \text{ lbs})$$

$$= 0.1 \text{ TPY}$$

Storage Load-out of Base Aggregate Storage Pile - 100,000 TPY

$$0.002 \text{ lb/tn (100,000 TPY)}(1 \text{ tn}/2,000 \text{ lbs})$$

$$= 0.1 \text{ TPY}$$

Wind Erosion -

$$\text{Silt Content (S)-} \quad 4.0 \%$$

$$\text{Surface area -} \quad 2.0 \text{ acres}$$

$$\text{Precipitation 0.01" (P) -} \quad 130 \text{ days per year}$$

$$\text{Wind velocity \% >12 MPH (F)-} \quad 30 \text{ days per year}$$

$$\text{Emissions, lb/day/acre} = 1.79 (S/1.5)[365 \text{ days} - P]/235](F/15)$$

$$= 1.79(4.0/1.5)[(365-130)/235](30/15)$$

$$= 9.5 \text{ lb/day/acre}$$

$$= 9.5 (2.0 \text{ acre})(365 \text{ days/year})(1 \text{ tn}/2,000 \text{ lbs})$$

$$= 3.47 \text{ TPY}$$

Total particulate emissions:

$$\begin{aligned} &= 0.1 \text{ TPY} + 0.1 \text{ TPY} + 3.47 \text{ TPY} \\ &= 3.67 \text{ tons per year} \end{aligned}$$

- b. Emission Limitation -
No visible emissions, except for one-minute per hour

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"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

1. If probable cause exists indicating the source is causing or contributing to a nuisance in violation of Ohio Administrative Code rule 3745-15-07, the owner or operator of this emissions unit shall be required to submit and implement a control program which will bring this source into compliance.

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>
F029 - Material Handling (1) 120 ton per hour conveyor	OAC rule 3745-31-05(A)(3)	0.012 lb particulates emissions (PE)/hr; 0.05 ton PE/yr
		See A.2.c
		10% opacity
	NSPS 40 CFR Part 60, Subpart OOO	Exempt
	OAC rule 3745-17-11(B)	The limit based on this rule is less stringent than the particulate limit established above as Best Available Technology (BAT) under 3745-31-05(A)(3).
	OAC rule 3745-17-08(B)	Reasonably available control measures (RACM). (See Sections A.2.b. and A.2.c.)

2. Additional Terms and Conditions

- 2.a The hourly particulate emission limitation of 0.012 pound and yearly emission limitation

Emissions Unit ID: **F029**

of 0.05 ton are based upon the emissions unit's Potential to Emit (PTE). Therefore, no hourly or yearly records of operation are required to demonstrate compliance with this limit.

- 2.b** The application of RACM are applicable only when the emissions unit is located in an Appendix A area as specified in OAC rule 3745-17-08.
- 2.c** The aggregate materials processed through the conveyors shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust from the transfer point(s), so that compliance with the opacity requirement(s) specified above is continuously maintained and meets the requirements of BAT.

B. Operational Restrictions

Water shall be applied at all points necessary to ensure compliance with the visible emissions limitation.

C. Monitoring and/or Record keeping Requirements

- 1.** The permittee shall conduct visible emissions evaluations at a minimum annually or upon relocation of the emissions unit. The visible emissions evaluations shall be performed during the period of May 1 through September 30.
- 2.** The permittee shall perform daily checks, when each piece of crushing equipment is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from each crushing operation. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. Whether the emissions are representative of normal operations;
 - b. If the emissions are not representative of normal conditions, the cause of the abnormal emissions;
 - c. The total duration of any visible emission incident; and
 - d. Any corrective actions taken to eliminate the visible emissions.

D. Reporting Requirements

- 1.** The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) of any Method 9 evaluation that did not demonstrate compliance with the opacity

requirement(s) specified above. The notification shall be in writing and shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the exceedance occurs.

2. The permittee shall submit quarterly deviation (excursion) reports which identify the occurrences identified below:
 - 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.

These reports are due by the date described in Part 1-General Terms and Conditions of this permit under Section (A)(2).

E. Testing Requirements

1. Compliance with the emissions limitations in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation-
0.012 lb PE/hr

Applicable Compliance Method-
Compliance shall be determined by multiplying the maximum hourly production rates of the conveyor (120 tons per hour) by the emission factor of 1.008 E-4 lb/ton, as specified in AP-42, Table 11.19.2-2, and summing the emission rates for all eleven conveyors
 - b. Emission Limitation-
0.05 ton PE/yr

Applicable Compliance Method-
Compliance shall be based upon the hourly emissions rate (0.012 lb PE per hour) by 8,760 hours per year and dividing by 2,000 pounds per ton. The sum shall be determined by adding each conveyor's emissions rate together.
 - c. Emission Limitation-
10% opacity

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Applicable Compliance Method-
Compliance shall be determined by visible emission evaluations performed using the methods and procedures specified in USEPA Reference Method 9.

F. Miscellaneous Requirements

None

NEW SOURCE REVIEW FORM B

PTI Number: 05-12285 Facility ID: 0514000147

FACILITY NAME Melvin Stone Co

FACILITY DESCRIPTION Portable canica crusher. CITY/TWP Sabina

Emissions Unit ID: **F029**

SIC CODE 1422 SCC CODE 20200104 EMISSIONS UNIT ID B006

EMISSIONS UNIT DESCRIPTION 450 HP Diesel Engine (Serial Number BEM00315)

DATE INSTALLED 2001

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		1.0	1.73	1.0	1.73
PM ₁₀					
Sulfur Dioxide		1.0	1.61	1.0	1.61
Organic Compounds		1.11	1.95	1.11	1.95
Nitrogen Oxides		13.95	24.41	13.95	24.41
Carbon Monoxide		3.01	5.26	3.01	5.26
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? **000** PSD? OFFSET POLICY?

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

Use of diesel fuel

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 X NO

IDENTIFY THE AIR CONTAMINANTS:

NEW SOURCE REVIEW FORM B

PTI Number: 05-12285 Facility ID: 0514000147

FACILITY NAME Melvin Stone Co

FACILITY DESCRIPTION Portable canica crusher. CITY/TWP Sabina

Emissions Unit ID: **F029**

SIC CODE 1422 SCC CODE 30502511 EMISSIONS UNIT ID F027

EMISSIONS UNIT DESCRIPTION 120 ton/hr Portable Canica Crusher

DATE INSTALLED 2001

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		0.84	0.36	0.84	0.36
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? **000** PSD? OFFSET POLICY?

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

Use of water to minimize fugitive dust

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 X NO

IDENTIFY THE AIR CONTAMINANTS:

NEW SOURCE REVIEW FORM B

PTI Number: 05-12285 Facility ID: 0514000147

FACILITY NAME Melvin Stone Co

FACILITY DESCRIPTION Portable canica crusher. CITY/TWP Sabina

Emissions Unit ID: **F029**

SIC CODE 1422 SCC CODE 30502507 EMISSIONS UNIT ID F028

EMISSIONS UNIT DESCRIPTION Aggregate Storage Pile

DATE INSTALLED 2001

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			3.67		3.67
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? **000** PSD? OFFSET POLICY?

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

Use of water to minimize fugitive dust.

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 X NO

IDENTIFY THE AIR CONTAMINANTS:

3 NEW SOURCE REVIEW FORM B

PTI Number: 05-12285 Facility ID: 0514000147

FACILITY NAME Melvin Stone Co

FACILITY DESCRIPTION Portable canica crusher. CITY/TWP Sabina

Emissions Unit ID: **F029**

SIC CODE 1422 SCC CODE 30504022 EMISSIONS UNIT ID F029

EMISSIONS UNIT DESCRIPTION Material Handling (1) 120 ton per hour conveyor

DATE INSTALLED 2001

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		0.012	0.05	0.012	0.05
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? **000** PSD? OFFSET POLICY?

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

Enter Determination

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 X NO

IDENTIFY THE AIR CONTAMINANTS: