



State of Ohio Environmental Protection Agency

RE: FINAL PERMIT TO INSTALL CERTIFIED MAIL
JEFFERSON 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: 06-06216

DATE: 7/27/00

Belot Concrete
Joe Belot
101 Walden Ave
Tiltonsville, OH 43963

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

SEDO



Permit To Install

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

FINAL PERMIT TO INSTALL 06-06216

Application Number: 06-06216
APS Premise Number: 0641170249
Permit Fee: **\$3200**
Name of Facility: Belot Concrete
Person to Contact: Joe Belot
Address: 101 Walden Ave
Tiltonville, OH 43963

Location of proposed air contaminant source(s) [emissions unit(s)]:
101 Walden Ave
Tiltonville, Ohio

Description of proposed emissions unit(s):
Portable Concrete Batch Plant.

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 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 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>
PM	2.18

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>
paved and unpaved roadways and parking areas (see Section A.2.a and A.2.b)	OAC rule 3745-31-05	best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.c, and A.2.d through A.2.i) 1.64 tons PM/yr
	OAC rule 3745-17-07 (B)(4)	no visible particulate emissions except for one minute during any 60-minute period for paved roadways
	OAC rule 3745-17-07 (B)(5)	no visible particulate emissions except for 3 minutes during any 60-minute period for un paved roadways
	OAC rule 3745-17-08 (B), (B)(8), (B)(9)	less stringent than the above-mentioned visible emission limitation
	OAC rule 3745-17-08 (B), (B)(2)	less stringent than the above-mentioned control measure requirements

2. Additional Terms and Conditions

- 2.a The paved roadways and parking areas that are covered by this permit and subject to the

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Issued

Facility ID: 0641170249

Emissions Unit ID: F001

above-mentioned requirements are listed below:

paved roadways:

All

paved parking areas:

All

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

unpaved roadways:

All

unpaved parking areas:

All

- 2.c** The permittee shall employ best available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the submitted permit application, Belot Concrete has committed to treat the paved roadways and parking areas by sweeping and water flushing at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d** The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the submitted application, Belot Concrete has committed to treat the unpaved roadways and parking areas with water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for 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 ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.

- 2.f** Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.
- 2.g** The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.h** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.i** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

- 1. Except as otherwise provided in this section, the permittee shall perform inspections of the roadways and parking areas in accordance with the following frequencies:

<u>paved roadways and parking areas</u>	<u>minimum inspection frequency</u>
All	Daily
<u>unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
All	Daily

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2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee 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.
4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.d. shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an

inspection, was not implemented.

2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible emission limitation 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.

2. Emission Limitation:

1.64 tons PM/yr

Compliance Method:

Compliance shall be determined using AP-42 13.2.1 and 13.2.2. Emissions are determined using the following equation and assuming all unpaved roadways:

$$E = (k)(5.9) (s/12) (S/30) (W/3)^{0.7} (w/4)^{0.5} (365-p/365)$$

where

E = emission factor (lb PM/VMT)

k = particle size multiplier (1.0)

s = silt content of road (5.0%)

S = mean vehicle speed (5.0 mph)

W = mean vehicle weight (mixer truck = 35 tons, dump truck = 35 tons, cement tanker = 40 tons, loader = 10 tons, passenger vehicle = 1.5 tons)

w = mean number of wheels (mixer truck = 14, dump truck = 14, cement tanker = 14, loader = 4, passenger vehicle = 4)

p = number of days with at least 0.01 in precipitation per year

F. Miscellaneous Requirements

None

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Aggregate storage piles	OAC rule 3745-31-05 OAC rule 3745-17-07 (B)(6) OAC rule 3745-17-08	No visible particulate emissions except for a period of time not to exceed three minutes during any sixty minute observation period. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. 0.028 tons PM per year.

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 Aggregate Storage Piles

- 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 submitted permit application, Belot Concrete has committed to treat the load-in and load-out material(s) with water and/or other suitable dust suppression chemicals 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 and/or any other suitable dust suppression chemicals at sufficient treatment frequencies 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 Recordkeeping Requirements

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

storage pile identification

minimum load-in inspection frequency

ALL

DAILY

Emissions Unit ID: **F002**

- 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 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

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the 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.
2. Emission Limitation:

0.028 tons PM per year

Compliance Method:

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Compliance shall be determined by using AP-42 13.2.4. The following equation shall be used:

$$E = (k) (0.0016) [(U/5)^{1.3}/(M/2)^{1.4}]$$

where

E = emission factor, lb/ton

k = particle size multiplier (0.74)

U = mean wind speed (10 mph)

M = material moisture content (sand = 7.0%, gravel, slag limestone = 5.0%)

The resulting emission factor is multiplied 2 for each pile (applied for load-in and load-out) and by annual throughput (tons) for annual emissions.

F. Miscellaneous Requirements

None

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Material handling operations	OAC rule 3745-31-05 OAC rule 3745-17-08(B)	Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust
	OAC rule 3745-17-07 (B)(1)	Maximum 20% opacity as a three-minute average; PM: 0.014 tons per year.

2. Additional Terms and Conditions

- 2.a The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

ALL

- 2.b The permittee shall employ best available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the submitted permit application, Belot Concrete has committed to perform the following control measure(s) to ensure compliance:

material handling operation(s)

control measure(s)

ALL

wet suppression

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

- 2.c For each material handling operation that is not adequately enclosed, the above-identified control 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 above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
- 2.d Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

B. Operational Restrictions

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

<u>material handling operation(s)</u>	<u>minimum inspection frequency</u>
ALL	DAILY

- 2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
- 3. 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.
- 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 measure(s);
 - c. the dates the control measure(s) was (were) implemented; and

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- d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

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.

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible emission limitations for the material handling operation(s) identified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraph (B)(5) of OAC rule 3745-17-03.
2. Emission Limitation:

0.014 tons PM per year

Compliance Method:

Compliance shall be determined by using AP-42 13.2.4. The following equation shall be used:

$$E = (k) (0.0016) [(U/5)^{1.3}/(M/2)^{1.4}]$$

where

E = emission factor, lb/ton

k = particle size multiplier (0.74)

U = mean wind speed (10 mph)

M = material moisture content (sand = 7.0%, gravel, slag limestone = 5.0%)

The resulting emission factor is multiplied by annual throughput (tons) for each material.

F. Miscellaneous Requirements

None

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Portable concrete batch plant with baghouse; weigh hopper loading of cement, sand, aggregate, and loading of transit-mix truck	OAC rule 3745-31-05	The batch plant shall use enclosures vented to a fabric filter, and/or wet suppression to prevent any visible fugitive particulate emissions;
	OAC rule 3745-17-08(B)(3)	Maximum 20% opacity as a six-minute average, except as provided by rule from fabric filter exhaust, and the fabric filter exhaust shall not exceed 0.030 gr/dscf of particulate emissions;
		Fugitive emissions from the feed bin conveyor drop points and weigh hopper loading shall not exceed 9.8 lb PM/hr, and visible emissions shall not exceed 20% opacity as a three-minute average;
	OAC rule 3745-17-07	Total PM emissions shall not exceed 0.50 ton per year

Belot (

PTI A

Issued: 7/27/00

Emissions Unit ID: **F004**

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

2. Additional Terms and Conditions

- 2.a The permittee shall ensure that the moisture content of the aggregate/sand used in the plant is sufficient to minimize or eliminate fugitive dust emissions from all feed bin loading, weigh hopper loading, and truck loading operations.
- 2.b Operations shall be halted if excessive visible emissions from the fabric filter exhaust are observed during pneumatic loading of cement into the silo. All repairs and/or adjustments shall be made prior to resuming operations.
- 2.c All exhaust gas from the cement silo shall be vented through a fabric filter capable of attaining a minimum 99% control efficiency. All exhaust from pneumatic silo loading, cement weigh hopper loading, and mix truck loading shall be vented to the fabric filter(s).
- 2.d Mix trucks shall be loaded through a concentric pipe (or equivalent) capable of drawing particulate emissions through a fabric filter.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall perform daily checks while the equipment is in operation for any visible particulate emissions from the fabric filter exhaust, or any visible fugitive particulate emissions from the batch plant. The presence or absence of any visible emissions from the fabric filter exhaust, or the batch plant shall be noted in an operations log. If any visible emissions are observed, corrective actions shall be taken to eliminate the visible emissions and these actions shall also be noted in the operations log.
- 2. The fabric filter exhaust shall be observed during each silo loading activity for visible particulate emissions from the fabric filter exhaust. The presence or absence of any visible emissions from the fabric filter exhaust shall be noted in an operations log. If any visible emissions are observed, corrective actions shall be taken (per A.2.b, above) to eliminate the visible emissions. These actions shall be noted in the operations log. Operations shall be halted and repairs made to the fabric filter in the event that excessive visible emissions are observed.

D. Reporting Requirements

- 1. The permittee shall submit a "Notice of Intent to Relocate a Portable or Mobile Source" form 30 days

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prior to any planned relocation of this emissions unit. Approval of the planned relocation must be obtained from the Ohio EPA Southeast District Office prior to the relocation.

In accordance with OAC rule 3745- 31-05 (F), the applicant must demonstrate that the following criteria have been met:

- a. the portable source owner or operator possesses an Ohio EPA permit to install, permit to operate or registration status;
- b. the portable source is equipped with best available technology;
- c. the portable source owner has identified the proposed site to Ohio EPA;
- d. the Ohio EPA has determined that the portable source, at the proposed site, will have an acceptable environmental impact;
- e. a public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;
- f. the owner of the proposed site has provided the portable source owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable source to this proposed site; and
- g. the portable source owner has provided Ohio EPA with fifteen days written notice of the relocation.

Any site approvals issued by Ohio EPA shall be valid for no longer than three years and are subject to renewal.

The Director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

2. The permittee shall submit reports which (a) identify all days during which any visible particulate emissions were observed from the fabric filter exhaust, or the batch plant and (b) describe the corrective actions taken to eliminate the visible particulate emissions.

The reports shall be submitted on:

- a. July 15 and shall cover the period from January 1 until June 30 for each calendar year.
- b. January 15 and shall cover the period from July 1 until December 31 for each calendar year.

If no visible particulate emissions are observed during a given period, the permittee shall submit a report which states that no visible particulate emissions were observed during that period (These reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06).

E. Testing Requirements

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

- a. Emission Limitation:

0.030 gr/dscf

Compliance Determination Method:

If required, compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-17-03(B)(7). Compliance shall be demonstrated utilizing the worst case scenario for PM emissions from the baghouse filter:

From AP-42 Table 11.12-2, the factor for pneumatic truck unloading is 0.27 lb/ton unloaded. Using a maximum unload rate of 40 tons/hr, the uncontrolled emissions are as follows:

$$(0.27 \text{ lb PM/ton}) (40 \text{ tons/hr}) = 10.8 \text{ lb PM/hr}$$

Utilizing a 99% control efficiency, hourly emissions are:

$$(10.8 \text{ lb PM/hr}) (1.0 - 0.99) = 0.108 \text{ lb PM/hr}$$

At a flow rate of 500 cfm, this is less than the allowable 0.129 lb PM/hr (0.030 gr/dscf).

- b. Emission Limitation:

9.8 lb PM/hr (fugitive)

Compliance Determination Method:

Fugitive emissions from i) sand/aggregate transfer from feed bins and ii) sand/aggregate transfer from conveyor to weigh hopper shall be calculated as follows:

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From AP-42 table 11.12-2, utilize 0.029 lb PM/ton for "sand/aggregate transfer to elevated bin" and 0.02 lb PM/ton for "weigh hopper loading".

Multiply: (200 tons (sand/aggregate) /hr) x (0.029 lb PM/ton) = 5.8 lb PM/hr

Multiply: (200 tons (sand/aggregate) /hr) x (0.02 lb PM/ton) = 4 lb PM/hr

(5.8 lb PM/hr) + (4.0 lb PM/hr) = 9.8 lb PM/hr

c. Emission Limitation:

0.50 ton PM/yr

Compliance Determination Method:

Fugitive emissions from i) sand/aggregate transfer from feed bins and ii) sand/aggregate transfer from conveyor to weigh hopper shall be calculated as follows:

From AP-42 table 11.12-2, utilize 0.029 lb PM/ton for "sand/aggregate transfer to elevated bin" and 0.02 lb PM/ton for "weigh hopper loading".

$$(20,000 \text{ tons (sand/aggregate) /yr}) \times (0.029 \text{ lb PM/ton}) \times (1 \text{ ton}/2000 \text{ lb}) = 0.29 \text{ ton PM/yr}$$

$$(20,000 \text{ tons (sand/aggregate) /yr}) \times (0.02 \text{ lb PM/ton}) \times (1 \text{ ton}/2000 \text{ lb}) = 0.20 \text{ ton PM/yr}$$

Controlled emissions from i) cement to silo loading, ii) cement to weigh hopper, and iii) mix truck loading shall be calculated as follows:

From AP-42 table 11.12-2, utilize 0.27 lb PM/ton for "cement to silo loading", 0.02 lb PM/ton for "cement to weigh hopper", and 0.02 lb PM/ton for "mix truck loading". Utilize 99% control:

$$(2000 \text{ tons cement /yr}) \times (0.27 \text{ lb PM/ton}) \times (1 \text{ ton}/2000 \text{ lb}) (1-0.99) = 2.7 \text{ E-3 ton PM/yr}$$

$$(2000 \text{ tons cement /yr}) \times (0.02 \text{ lb PM/ton}) \times (1 \text{ ton}/2000 \text{ lb}) (1-0.99) = 2.0 \text{ E-4 ton PM/yr}$$

$$(22,000 \text{ tons (sand/aggregate) /yr}) \times (0.02 \text{ lb PM/ton}) \times (1 \text{ ton}/2000 \text{ lb}) (1-0.99) = 2.2 \text{ E-3 ton PM/yr}$$

Total emissions are:

$$0.29 + 0.20 + 2.7\text{E-3} + 2.0\text{E-4} + 2.2\text{E-3} = 0.50 \text{ ton PM/yr}$$

d. Emission Limitation:

20% opacity as a three-minute average and 20% opacity as a six-minute average

Applicable Compliance Method:

Compliance with the visible emission limitations for the material handling operation(s) identified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed

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in paragraph (B)(5) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

None

NEW SOURCE REVIEW FORM B

PTI Number: 06-06216 Facility ID: 0641170249

FACILITY NAME Belot Concrete

FACILITY DESCRIPTION Portable Concrete Batch Plant CITY/TWP Tiltonsville

Emissions Unit ID: F004

SIC CODE 3273 SCC CODE 30501110 EMISSIONS UNIT ID F001

EMISSIONS UNIT DESCRIPTION Roadways and Parking.

DATE INSTALLED 08/01/00

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			1.64		1.64
PM ₁₀					
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

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY?

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

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? YES NO

IDENTIFY THE AIR CONTAMINANTS:

NEW SOURCE REVIEW FORM B

PTI Number: 06-06216 Facility ID: 0641170249

FACILITY NAME Belot Concrete

FACILITY DESCRIPTION Portable Concrete Batch Plant. CITY/TWP Tiltonville

Emissions Unit ID: **F004**

SIC CODE 3273 SCC CODE 30501110 EMISSIONS UNIT ID F002

EMISSIONS UNIT DESCRIPTION Storage Piles.

DATE INSTALLED 08/01/00

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		0.88 lb/hr	0.028		0.028
PM ₁₀					
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

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY?

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

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? YES NO

IDENTIFY THE AIR CONTAMINANTS:

NEW SC

PTI Num

FACILITY

Emissions Unit ID: **F004** _____

FACILITY DESCRIPTION Portable Concrete Batch Plant. CITY/TWP Tiltonsville

SIC CODE 3273 SCC CODE 30501110 EMISSIONS UNIT ID F003

EMISSIONS UNIT DESCRIPTION Material Handling.

DATE INSTALLED 08/01/00

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			0.014		0.014
PM ₁₀					
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

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? _____

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

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____

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PTI Number: 06-06216 Facility ID: 0641170249

FACILITY NAME Belot Concrete

FACILITY DESCRIPTION Portable Concrete Batch Plant. CITY/TWP Tiltonsville

Emissions Unit ID: **F004**

SIC CODE 3273 SCC CODE 30501110 EMISSIONS UNIT ID F004

EMISSIONS UNIT DESCRIPTION Portable Batch Plant.

DATE INSTALLED 08/01/00

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		0.030 gr/dscf	0.50	0.030 gr/dscf	0.50
PM ₁₀					
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

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY?

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

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? YES NO

IDENTIFY THE AIR CONTAMINANTS:

Ohio EPA Permit to Install Information Form Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit **hard copy items to Pam McGraner**, AQM&P, DAPC, Central Office, and electronic files to airpti@epa.state.oh.us

Please fill out the following. If the checkbox does not work, replace it with an 'X'

	Electronic	Additional information File Name Convention (your PTI # plus this letter)	Hard Copy	None
Calculations (required)	<input checked="" type="checkbox"/>	0000000c.wpd	<input checked="" type="checkbox"/>	
Modeling form/results	<input type="checkbox"/>	0000000s.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PTI Application (complete or partial)*	<input type="checkbox"/>	0000000a.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>

NEW SOURCE REVIEW FORM B

PTI Number: 06-06216

Facility ID: 0641170249

FACILITY NAME Belot Concrete

FACILITY DESCRIPTION Portable Concrete Batch Plant.

CITY/TWP Tiltonsville

Emissions Unit ID: **F004**

BAT Study	<input type="checkbox"/>	0000000b.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other/misc.	<input checked="" type="checkbox"/>	0000000t.wpd	<input type="checkbox"/>	<input type="checkbox"/>

* Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.

Please complete (see comment bubble to the left for additional instructions):

NSR Discussion

NONE

Please complete for these type permits (For PSD/NSR Permit, place mouse over this text):

Synthetic Minor Determination and/or Netting Determination
Permit To Install ENTER PTI NUMBER HERE

- A. Source Description
- B. Facility Emissions and Attainment Status
- C. Source Emissions
- D. Conclusion

PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:

NONE

Please complete:

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Pollutant

PM

Tons Per Year

2.18

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PTI Number: 06-06216

Facility ID: 0641170249

FACILITY NAME Belot Concrete

FACILITY DESCRIPTION Portable Concrete Batch Plant.

CITY/TWP Tiltonsville

Emissions Unit ID: **F004**