

Facility ID: 0322000268 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

- [Go to Part II for Emissions Unit F001](#)
- [Go to Part II for Emissions Unit F002](#)
- [Go to Part II for Emissions Unit P901](#)
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Facility ID: 0322000268 Emissions Unit ID: F001 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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 plant roadways and parking areas (F001)	OAC rule 3745-31-05(A)(3) (PTI #03-13500 modification, issued 01-15-2004)	1.5 tons particulate emissions (PE)/yr There shall be no visible particulate emissions except for one minute during any 60-minute period. Use of best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.c. through A.2.g.).
	OAC rule 3745-17-08 (A)	See A.2.a.
	OAC rule 3745-17-07 (B)(1)	See A.2.b.

2. Additional Terms and Conditions

- (a) Castalia Trenching and Ready Mix, Inc. is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B)(1). This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e). The paved roadways/parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:
 - i. 0.18 mile (12,000 square feet) roadway/parking area specified as truck routes in the PTO application.
 - ii. 0.06 mile (12,000 square feet) roadway/parking area specified as loader routes in the PTO application.
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 permittee's permit application, the permittee has committed to treat the paved 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.
The permittee shall employ best available control measures on the unpaved shoulders of all paved roadways 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 the unpaved shoulders of all paved roadways 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.
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 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.

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.

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.

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 (A)(3).

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

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

paved roadways minimum inspection frequency

all roadways once during each day of operation

paved parking areas minimum inspection frequency

all parking areas once during each day of operation

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:
- 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;
 - The date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - The dates the control measures were implemented; and
 - 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 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 in accordance with the General Terms and Conditions of this permit that identify any of the following occurrences:
- 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
 - Each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

E. Testing Requirements

1. Compliance with the emission limitations in Section A.1. of the terms and conditions of this permit shall be determined in accordance with the following methods:

Emission Limitation:

1.5 tons PE/yr

Applicable Compliance Method:

This emission limitation was developed by applying a 50% control efficiency for dust suppression to a maximum potential uncontrolled emission rate of 2.9 TPY PE. The maximum potential uncontrolled emission rate was calculated using AP-42 emission factors from Chapter 13.2.1.3 (10/97). Compliance shall be demonstrated through the monitoring and record keeping requirements in Section C of this permit.

Emission Limitation Method:

There shall be no visible particulate emissions from any paved roadway except for a period of time not to exceed 1 minute during any 60-minute observation period.

Applicable Compliance Method:

Compliance with the visible emission limitation specified 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. None

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Facility ID: 0322000268 Emissions Unit ID: F002 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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 (F002)	OAC rule 3745-31-05(A)(3) (PTI #03-13500 modification, issued 01-15-2004)	0.53 ton particulate emissions (PE)/yr
load-in and load-out of storage piles (see section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3) (PTI #03-13500 modification, issued 01-15-2004)	There shall be no visible emissions except for a period of time not to exceed one minute during any 60-minute observation period. Use of best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See A.2.b., A.2.c., and A.2.f.).
wind erosion from storage piles (see section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3) (PTI #03-13500 modification, issued 01-15-2004)	There shall be no visible emissions except for a period of time not to exceed one minute during any 60-minute observation period. Use of best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See A.2.d. through A.2.f.).
	OAC rule 3745-17-08(A)	See A.2.g.
	OAC rule 3745-17-07(B)(1)	See A.2.h.

2. Additional Terms and Conditions

- (a) The storage piles that are covered by this permit and subject to the requirements of OAC rule 3745-31-05(A)(3) are listed below:

storage pile identification:

i. Sand; and

ii. Aggregate

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 application, the permittee has committed to treat the storage piles with the following methods in order to ensure compliance:

i. Watering at sufficient treatment frequencies; and

ii. Partial enclosure.

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

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.

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 the storage piles with the following methods in order to ensure compliance:

- i. Watering at sufficient treatment frequencies; and
- ii. Partial enclosure.

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

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.

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 (A)(3).

Castalia Trenching and Ready Mix, Inc. is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emission unit is exempt from the requirements of OAC rule 3745-17-08(B)(1).

This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

B. Operational Restrictions

1. 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:
 - storage pile identification minimum load-in inspection frequency
 - all storage piles 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:
 - storage pile identification minimum load-out inspection frequency
 - all storage piles 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:
 - storage pile identification minimum wind erosion inspection frequency
 - all storage piles 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

1. 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.

E. Testing Requirements

1. Compliance with the emission limitations in Section A.1. of the terms and conditions of this permit shall be determined in accordance with the following methods:

Emission Limitation:
0.53 ton PE/yr

Applicable Compliance Method:

This emission limitation was developed by applying a 50% control efficiency for dust suppression to a maximum potential uncontrolled emission rate of 0.6 TPY PE. The maximum potential uncontrolled emission rate was calculated using AP-42 emission factors from Table 11.12-2 (10/86) and Section 13.2.4 (1/95) Compliance shall be demonstrated through the monitoring and record keeping requirements specified in Section C of this permit.

Emission Limitation:

There shall be no visible particulate emissions from the load-in and load-out operations of the storage piles except for a period of time not to exceed 1 minute during any 60-minute observation period.

Applicable Compliance Method:

Compliance with the visible emission limitation specified 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.

Emission Limitation:

There shall be no visible particulate emissions from wind erosion of the storage piles except for a period of time not to exceed 1 minute during any 60-minute observation period.

Applicable Compliance Method:

Compliance with the visible emission limitation specified 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. None

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Facility ID: 0322000268 Emissions Unit ID: P901 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

(a) None.

2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

(a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
concrete batch plant - cement unloading/sand and aggregate loading to bins/silos (F003)	OAC rule 3745-31-05(A)(3) (PTI #03-13500 modification, issued 01-15-2004)	control requirements (See A.2.e.) stack emissions: 0.05 lb particulate emissions (PE)/hr 0.01 ton PE/yr

Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.

fugitive emissions:
0.47 ton PE/yr

Visible particulate emissions shall not exceed 20% opacity as a three-minute average, except as provided by rule.

Use of best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See A.2.f. and A.2.g.).

- | | |
|---------------------------|------------|
| OAC rule 3745-17-11(B) | See A.2.a. |
| OAC rule 3745-17-07(A) | See A.2.b. |
| OAC rule 3745-17-08(A) | See A.2.c. |
| OAC rule 3745-17-07(B)(1) | See A.2.d. |

2. Additional Terms and Conditions

- (a) The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11 (A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply.
In accordance with OAC rule 3745-17-07 (A)(1)(h), the visible particulate emission limitations specified in OAC rule 3745-17-07 (A) are not applicable because OAC rule 3745-17-11 is not applicable to this emissions unit.
Castalia Trenching and Ready Mix, Inc. is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emission unit is exempt from the requirements of OAC rule 3745-17-08(B).
This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07 (B)(1) pursuant to OAC rule 3745-17-07(B)(1)(e).
"Best Available Technology" (BAT) control requirements for emissions unit P901 have been determined to be the following:
 - i. Use of a baghouse for pneumatic unloading of cement. The baghouse shall achieve a 99% removal efficiency (100% capture).
 - ii. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.f.)
The permittee shall employ best available control measures to minimize or eliminate visible emissions of fugitive dust. In accordance with the permittee's permit application, the permittee has committed to minimize drop height for sand and aggregate transfer by belt conveyor to bins.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
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 (A)(3).

B. Operational Restrictions

- 1. The maximum concrete production for the concrete batch plant shall not exceed 40,000 tons per year.

C. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. 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. The color of the emissions;
 - b. Whether the emissions are representative of normal operations;
 - c. If the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. The total duration of any visible emission incident; and
 - e. Any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.
- 2. The permittee shall collect and record the following information each month:
 - a. The total tons per month of concrete produced; and
 - b. The annual, year to date, tons of concrete produced (sum of a.) for each calendar month to date from January to December.

3. 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:

material handling operation(s) minimum inspection frequency

Sand and Aggregate Loading to Bins daily
4. The above-mentioned inspections shall be performed during representative, normal operating conditions.
5. 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.
6. 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
 - 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 semiannual written reports that (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit annual deviation (excursion) reports which identify any exceedances in the maximum concrete production of 40,000 tons per year. If no deviations occurred during the calendar year, the permittee shall submit an annual report which states that no deviations occurred during the calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
3. The permittee shall submit deviations reports, in accordance with the General Terms and Conditions of this permit, 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.

E. Testing Requirements

1. Compliance with the emission limitations in Section A.1. of the terms and conditions of this permit shall be determined in accordance with the following methods:

Emission Limitation:
Stack Emissions
0.05 lb PE/hr

Applicable Compliance Method:
This emission limitation was established by multiplying the maximum hourly cement unloading throughput (18 tons/hr) by the appropriate emission factor from AP-42 Chapter 11.12-2, 1/95 (0.27 lb PE/ton) and applying a 99% baghouse control efficiency. If required, compliance with this limitation shall be based on emission testing performed in accordance with 40 CFR Part 60 Appendix A - Method 5.

Emission Limitation:
Stack Emissions
0.01 ton PE/yr

Applicable Compliance Method:
This emission limitation was established by multiplying the maximum yearly cement unloading throughput (5,876 tons/yr based on a maximum concrete production rate of 40,000 tons per year) by the appropriate emission factor from AP-42 Chapter 11.12-2 (10/86 - reformatted 01/95), (0.27 lb PE/ton), dividing by 2000 lbs/ton and applying a 99% baghouse control efficiency. The permittee shall demonstrate compliance by the monitoring and record keeping of the concrete production in Section C.2.

Emission Limitation:
Stack Emissions
Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:
Compliance with the visible emission limitation specified 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 paragraphs (B) (3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

Emission Limitation:
Fugitive Emissions
0.47 ton PE/yr

Applicable Compliance Method:
This emission limitation was established by combining the annual fugitive emissions from #57 stone and sand

transfer, where:

#57 Stone = the maximum annual #57 stone transfer (17,190 tons/yr based on a maximum concrete production rate of 40,000 tons/yr) multiplied by the appropriate emission factor from AP-42 Chapter 11.12-2, 1/95 (0.029 lb PE/ton) and divided by 2000 lbs/ton

Sand = the maximum annual sand transfer (15,002 tons/yr based on a maximum concrete production rate of 40,000 tons/yr) multiplied by the appropriate emission factor from AP-42 Chapter 11.12-2, 1/95 (0.029 lb PE/ton) and divided by 2000 lbs/ton

The permittee shall demonstrate compliance by the monitoring and record keeping of the concrete production specified in Section C.2.

Emission Limitation:

Fugitive Emissions

Visible particulate emissions shall not exceed 20% opacity as a three-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance with the visible emission limitation specified 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 paragraphs (B) (3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0322000268 Emissions Unit ID: P902 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
concrete batch plant - weigh hopper and truck loading/mixing (F004)	OAC rule 3745-31-05(A)(3) (PTI #03-13500 modification, issued 01-15-2004)	control requirements (See A.2.e) stack emissions: 0.07 lb particulate emissions (PE)/hr 0.01 ton PE/yr Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule. fugitive emissions: 0.02 ton PE/yr Visible particulate emissions shall not exceed 20% opacity as a three-minute average, except as provided by rule. Use of best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See A.2.f. and A.2.g.).
	OAC rule 3745-17-11(B)	See A.2.a.
	OAC rule 3745-17-07(A)	See A.2.b.

OAC rule 3745-17-08(A) See A.2.c.
 OAC rule 3745-17-07(B)(1) See A.2.d.

2. Additional Terms and Conditions

- (a) The uncontrolled mass rates of particulate emissions (PE) from these emissions units are less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11 (A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply.
 In accordance with OAC rule 3745-17-07 (A)(1)(h), the visible particulate emission limitations specified in OAC rule 3745-17-07 (A) are not applicable because OAC rule 3745-17-11 is not applicable to this emissions unit.
 Castalia Trenching and Ready Mix, Inc. is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emission unit is exempt from the requirements of OAC rule 3745-17-08(B).
 This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07 (B) pursuant to OAC rule 3745-17-07(B)(1)(e).
 "Best Available Technology" (BAT) control requirements for emissions unit P901 have been determined to be the following:
 - i. Use of a baghouse for weigh hopper loading (100% capture efficiency) and truck mix loading (90% capture efficiency). The baghouse shall achieve a 99% removal efficiency.
 - ii. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.f.)
 The permittee shall employ best available control measures to minimize or eliminate visible emissions of fugitive dust. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure(s) to ensure compliance:
 - i. Concrete Truck Loading/Mixing:
 watering at sufficient treatment frequencies shall supplement the requirements specified in Section A.2.e.i.
- Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
 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 (A)(3).

B. Operational Restrictions

- 1. The maximum concrete production for the concrete batch plant shall not exceed 40,000 tons per year.

C. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. 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. The color of the emissions;
 - b. Whether the emissions are representative of normal operations;
 - c. If the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. The total duration of any visible emission incident; and
 - e. Any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.
- 2. The permittee shall collect and record the following information each month:
 - a. The total tons per month of concrete produced; and
 - b. The annual, year to date, tons of concrete produced (sum of a.) for each calendar month to date from January to December.
- 3. 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:
 - material handling operation(s) minimum inspection frequency
 - Concrete Truck Loading/Mixing daily
- 4. The above-mentioned inspections shall be performed during representative, normal operating conditions.
- 5. 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.

6. The permittee shall maintain records of the following information:
- The date and reason any required inspection was not performed;
 - The date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - The dates the control measure(s) was (were) implemented; and
 - 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

- The permittee shall submit semiannual written reports that (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
- The permittee shall submit annual deviation (excursion) reports which identify any exceedances in the maximum concrete production of 40,000 tons per year. If no deviations occurred during the calendar year, the permittee shall submit an annual report which states that no deviations occurred during the calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
- The permittee shall submit deviations reports, in accordance with the General Terms and Conditions of this permit, that identify any of the following occurrences:
 - Each day during which an inspection was not performed by the required frequency; and
 - Each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

E. Testing Requirements

- Compliance with the emission limitations in Section A.1. of the terms and conditions of this permit shall be determined in accordance with the following methods:
Emission Limitation:
Stack Emissions
0.07 lb PE/hr

Applicable Compliance Method:
This emission limitation was established by combining the hourly stack emissions from cement weigh hopper loading and concrete truck loading/mixing, where:

Weigh Hopper Loading = the maximum hourly cement weigh hopper loading (18 tons/hr) multiplied by the appropriate emission factor from AP-42 Chapter 11.12-2, 1/95 (0.27 lb PE/ton) with an applied 99% baghouse control efficiency.

Concrete Truck Loading/Mixing = the maximum hourly truck mix loading (120 tons/hr) multiplied by the appropriate emission factor from AP-42 Chapter 11.12-2, 1/95 (0.02 lb PE/ton) with an applied 90% capture efficiency and 99% baghouse removal efficiency.

If required, compliance with this limitation shall be based on emission testing performed in accordance with 40 CFR Part 60 Appendix A - Method 5.
Emission Limitation:
Stack Emissions
0.01 ton PE/yr

Applicable Compliance Method:
This emission limitation was established by combining the annual stack emissions from cement weigh hopper loading and concrete truck loading/mixing, where:

Weigh Hopper Loading = the maximum annual cement weigh hopper loading (5,876 tons/yr based on a maximum concrete production rate of 40,000 tons per year) multiplied by the appropriate emission factor from AP-42 Chapter 11.12-2, 1/95 (0.27 lb PE/ton), divided by 2000 lbs/ton with an applied 99% baghouse control efficiency.

Concrete Truck Loading/Mixing = the maximum annual truck mix loading (40,000 tons/yr) multiplied by the appropriate emission factor from AP-42 Chapter 11.12-2, 1/95 (0.02 lb PE/ton), divided by 2000 lbs/ton with an applied 90% capture efficiency and 99% baghouse removal efficiency.

The permittee shall demonstrate compliance by the monitoring and record keeping of the concrete production in Section C.2.
Emission Limitation:
Stack Emissions
Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:
Compliance with the visible emission limitation specified 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 paragraphs (B) (3)(a) and (B)(3)(b) of OAC rule 3745-17-03.
Emission Limitation:
Fugitive Emissions
0.02 ton PE/yr

Applicable Compliance Method:

This emission limitation was established by multiplying the maximum annual truck mix loading (40,000 tons/yr) by the appropriate emission factor from AP-42 Chapter 11.12-2 (0.02 lb PE/ton), dividing by 2000 lbs, and applying a 10% loss in capture efficiency from the baghouse and a 50% control efficiency for dust suppression with water. The permittee shall demonstrate compliance by the monitoring and record keeping of the concrete production specified in Section C.2.

Emission Limitation:**Fugitive Emissions**

Visible particulate emissions shall not exceed 20% opacity as a three-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance with the visible emission limitation specified 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 paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

1. None