Ohio Environmental Protection Agency
John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

Certified Mail

6/22/2012

CHARLES MERRILL
MID OHIO VALLEY LIME, INC.
P. O. BOX 734
MARIETTA, OH 45750

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED
No	SYNTHETIC MINOR TO AVOID TITLE V
No	FEDERALLY ENFORCABLE PTIO (FEPTIO)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 0684020015
Permit Number: P0109962
Permit Type: Initial Installation
County: Washington

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 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. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of $70.00, made payable to “Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General’s Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

If you have any questions, please contact Ohio EPA DAPC, Southeast District Office at (740)385-8501or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. This permit can be accessed electronically on the DAPCWeb page,www.epa.ohio.gov/dapc, by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA-SEDO

Ohio | Environmental Protection Agency

FINAL

Division of Air Pollution Control
Permit-to-Install and Operate
for
MID OHIO VALLEY LIME, INC.

Facility ID:	0684020015
Permit Number:	P0109962
Permit Type:	Initial Installation
Issued:	6/22/2012
Effective:	6/22/2012
Expiration:	3/21/2021

Ohio Environmental Protection Agency

Division of Air Pollution Control
Permit-to-Install and Operate
for
MID OHIO VALLEY LIME, INC.

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Authorization

Facility ID: 0684020015
Application Number(s): A0044393
Permit Number: P0109962
Permit Description: PTIO for two new emissions units (P904 and P905). P904 is a lime storage silo with bagging system controlled by a baghouse and P905 is a lime storage silo controlled by a baghouse.
Permit Type: Initial Installation
Permit Fee: $1,750.00
Issue Date: 6/22/2012
Effective Date: 6/22/2012
Expiration Date: 3/21/2021
Permit Evaluation Report (PER) Annual Date: Apr 1 - Mar 31, Due May 15

This document constitutes issuance to:

MID OHIO VALLEY LIME, INC.
STATE ROUTE 7 SOUTH
WARREN TWP, OH 45750

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Southeast District Office
2195 Front Street
Logan, OH 43138
(740)385-8501

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s))listed in this section 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 described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Scott J. Nally
Director

Authorization (continued)

Permit Number: P0109962
Permit Description: PTIO for two new emissions units (P904 and P905). P904 is a lime storage silo with bagging system controlled by a baghouse and P905 is a lime storage silo controlled by a baghouse.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	**P904**
Company Equipment ID:	bagger and silo for 50 lb bags of lime
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**P905**
Company Equipment ID:	Lime Storage Silo
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

A. Standard Terms and Conditions

1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement.Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is

very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is takenby Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Ohio EPA DAPC, Southeast District Office in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting[1] a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emissions unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

[1]Permittees that use Ohio EPA's "Air Services" can mark the affected emissions unit(s) as "permanently shutdown" in the facility profile along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.

B. Facility-Wide Terms and Conditions

1. 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).

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

      (1) None.

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

      (1) None.

C. Emissions Unit Terms and Conditions

1. P904, Bagger and Silo for 50 lb Bags of Lime

Operations, Property and/or Equipment Description:

Lime storage silo with a bagging system (with a maximum silo loading rate of 29,280 lbs/hr and a maximum unloading (bagging) rate of 6,000 lbs/hr) controlled by a baghouse with a minimum of 99% control efficiency and 99% capture efficiency – including pneumatic unloading into silo and transfer of lime from silo to bagger system and bagger operation.

a) 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.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	Particulate Emissions (PE) from the stack serving this emissions unit shall not exceed 0.15 lb/hr, and 0.37 ton/yr. There shall be no visible PE from the stack serving this emissions unit. Fugitive PE shall not exceed 0.37 ton/year. See b)(2)a. and c)(1) below. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B).

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
b.	OAC rule 3745-31-05(A)(3)(b), as effective 12/01/06	See b)(2)b. below.
c.	OAC rule 3745-17-07(A)	Visible PE from the stack shall not exceed 20% opacity, as a six-minute average. The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3), until such time as U.S. EPA approves the December 1, 2006, version of OAC rule 3745-31-05 as part of the State Implementation Plan.
d.	OAC rule 3745-17-07(B)	Visible PE of fugitive dust shall not exceed 20% opacity as a three-minute average.
e.	OAC rule 3745-17-08(B)	Reasonably available control methods that are sufficient to minimize or eliminate visible PE of fugitive dust. See b)(2)c. and b)(2)d. below.
f.	OAC rule 3745-17-11	PE shall not exceed 3.1 lbs/hr. The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3), until such time as U.S. EPA approves the December 1, 2006, version of OAC rule 3745-31-05 as part of the State Implementation Plan.

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC rule 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulation for NAAQS pollutant emissions less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revision to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, then these emission limits/control measures no longer apply.

b. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the SIP.

P0109962 for this air contaminant source takes into account the following voluntary restriction (including the use of any applicable air pollution control equipment) as proposed by the permittee for the purpose of avoiding BAT requirements under OAC rule 3745-31-05(A)(3):

i. PE from the stack serving this emissions unit shall not exceed 0.37 ton/year.

ii. Fugitive PE shall not exceed 0.37 ton/year.

iii. PE shall be controlled at all times when this emissions unit is in operation through the use of a baghouse with a control efficiency of no less than 99% and the capture efficiency of no less than 99% for the control of emissions from the silo and bagging operation (silo storage, loading of silo, and unloading of silo into bags).

c. The installation and use of hoods, fans, and/or other equipment to adequately enclose, contain, capture, vent, and control fugitive dust from this emissions unit shall meet the following requirements:

i. The collection efficiency shall be sufficient to minimize or eliminate VE of fugitive dust as the point(s) of capture to the extent possible with good engineering design; and

ii. The control equipment for this emissions unit shall achieve an outlet emission rate of no greater than 0.030 grain of PE per dry standard cubic foot of exhaust gases or there shall be no visible PE (whichever is less stringent) from the exhaust stack of this emissions unit.

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(A)(3) and OAC rule 3745-17-08(B).

c) Operational Restrictions

(1) PE shall be controlled at all times when this emissions unit is in operation through the use of a baghouse with a control efficiency of no less than 99% and the capture efficiency of no less than 99% for the control of emissions from the silo and bagging operation (silo, storage, loading of silo, and unloading of silo into bag).

d) Monitoring and/or Recordkeeping 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 exhaust 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 from the stack, the permittee shall also note the following in the operations log:

a. the location and color of the emissions;

b. the total duration of any visible emissions incident; and

c. any corrective actions taken to eliminate the visible emissions.

(2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) 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 location and 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 emissions incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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.

e) Reporting Requirements

(1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitations:

PE from the stack serving this emissions unit shall not exceed 0.15 lb/hr, and 0.37 ton/yr.

Applicable Compliance Method:

The above emissions limitations are based on the following calculations:

Silo Loading:

(0.61 lb PE/ton of lime)(29,280 lbs./hr)(1 ton/2,000 lbs)(0.99)(1-0.99) = 0.088407 lb of PE/hr

*(0.61 lb PE/ton of lime)(6,000 lbs./hr)(1 ton/2,000 lbs)(0.99)(1-0.99)(8,760 hrs/yr)(1 ton/2,000 lbs) = 0.07935246 ton of PE/hr

*Annual values do not represent maximum hourly emissions X 8,760 hrs/yr since the maximum annual production rate is limited by the bagging rate of 6,000 lb/hr.

Silo Unloading (bagging):

(2.2 lbs PE/ton of lime)(6,000 lbs/hr)(1 ton/2,000 lbs)(0.99)(1-0.99) = 0.06534 lb of PE/hr

(2.2 lbs PE/ton of lime)(6,000 lbs/hr)(1 ton/2,000 lbs)(0.99)(1-0.99)(8,760 hrs/yr)(1 ton/ 2,000 lbs) = 0.2861892 ton of PE/hr

Total Stack PE:

0.088407 lb of PE/hr + 0.06534 lb of PE/hr = 0.15 lb of PE/hr from the stack

0.07935246 ton of PE/yr + 0.2861892 ton of PE/yr = 0.37 ton of PE/yr from the stack

Where:

0.61 lb of PE/ton of lime = AP-42 Table 11.17-4 Product Loading, enclosed truck emissions factor

2.2 lbs of PE/ton of lime = AP-42 Table 11.17-4 Product Transfer and Conveying emissions factor

29,280 lbs/hr = maximum silo loading rate as submitted in permittee's application.

6,000 lbs/hr = maximum silo unloading (bagging) rate as submitted in permittee's application.

99% = baghouse capture efficiency as submitted in permittee's application.

99% = baghouse control efficiency as submitted in permittee's application.

If required, particulate emissions shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

Compliance with the annual emissions limitation may be assumed provided that the permittee demonstrates compliance with the hourly emissions limitation stated above.

b. Emissions Limitation:

There shall be no visible PE from the stack serving this emissions unit.

Applicable Compliance Method:

If required, visible particulate emissions shall be determined according to USEPA Method 22.

c. Emissions Limitations:

Visible PE from the stack shall not exceed 20% opacity, as a six-minute average.

Visible PE of fugitive dust shall not exceed 20% opacity as a three-minute average.

Applicable Compliance Method:

If required, visible particulate emissions shall be determined according to USEPA Method 9.

d. Emissions Limitations:

The control equipment for this emissions unit shall achieve an outlet emission rate of no greater than 0.030 grain of PE per dry standard cubic foot of exhaust gases or there shall be no visible PE (whichever is less stringent) from the exhaust stack of this emissions unit.

Applicable Compliance Method:

If required, particulate emissions shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources" and/or USEPA Method 22, and the procedures specified in OAC rule 3745-17-03(B)(7).

e. Emissions Limitation:

Fugitive PE shall not exceed 0.37 ton/year.

Applicable Compliance Method:

Compliance with the above emissions limitation is based on the following calculations:

Silo Loading:

*(0.61 lb PE/ton of lime)(6,000 lbs./hr)(1 ton/ 2,000 lbs)(0.01)(8,760 hrs/yr)(1 ton/2,000 lbs) = 0.080154 ton of fugitive PE/yr

*Annual values do not represent maximum hourly emissions X 8,760 hrs/yr since the maximum annual production rate is limited by the bagging rate of 6,000 lb/hr.

Silo Unloading (bagging):

(2.2 lbs. of PE/ton of lime)(6,000 lbs/hr)(1 ton/2,000 lbs)(0.01)(8,760 hrs/yr)(1 ton/2,000 lbs) = 0.28908 ton of fugitive PE/yr

Total Fugitive PE:

0.080154 ton of PE/yr + 0.28908 ton of PE/yr = 0.37 ton of fugitive PE/yr

Where:

0.61 lb of PE/ton of lime = AP-42 Table 11.17-4 Product Loading, enclosed truck emissions factor

2.2 lbs of PE/ton of lime = AP-42 Table 11.17-4 Product Transfer and Conveying emissions factor

6,000 lbs/hr = maximum silo unloading (bagging) rate as submitted in permittee's application

1% = baghouse capture loss as submitted in permittee's application.

f. Emissions Limitation:

PE shall not exceed 3.1 lbs/hr.

Applicable Compliance Method:

If required, particulate emissions shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

g) Miscellaneous Requirements

(1) None.

2. P905, Lime Storage Silo

Operations, Property and/or Equipment Description:

Lime storage silo with option to load out into plant or into truck (with a maximum silo loading rate of 31,980 lbs/hr and a maximum unloading (auger) rate of 15,960 lbs/hr) controlled by a baghouse with a minimum of 99% control efficiency and 99% capture efficiency.

a) 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.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	Particulate Emissions (PE) from the stack serving this emissions unit shall not exceed 0.27 lb/hr, and 0.98 ton/yr. There shall be no visible PE from the stack serving this emissions unit. Fugitive PE shall not exceed 0.98 ton/year. See b)(2)a. and c)(1) below. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B).

b.	OAC rule 3745-31-05(A)(3)(b), as effective 12/01/06	See b)(2)(b. below
c.	OAC rule 3745-17-07(A)	Visible PE from the stack shall not exceed 20% opacity as a six-minute average. The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3), until such time as U.S. EPA approves the December 1, 2006, version of OAC rule 3745-31-05 as part of the State Implementation Plan.
d.	OAC rule 3745-17-07(B)	Visible PE of fugitive dust shall not exceed 20% opacity as a three-minute average.
e.	OAC rule 3745-17-08(B)	Reasonably available control methods to minimize and eliminate emissions of fugitive dust. See b)(2)c. and b)(2)d. below
f.	OAC rule 3745-17-11	PE shall not exceed 5.46 lbs/hr. The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3), until such time as U.S. EPA approves the December 1, 2006, version of OAC rule 3745-31-05 as part of the State Implementation Plan.

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC rule 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulation for NAAQS pollutant emissions less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revision to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, then these emission limits/control measures no longer apply.

b. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the SIP.

P0109962 for this air contaminant source takes into account the following voluntary restriction (including the use of any applicable air pollution control equipment) as proposed by the permittee for the purpose of avoiding BAT requirements under OAC rule 3745-31-05(A)(3):

i. PE from the stack serving this emissions unit shall not exceed 0.98 ton/year.

ii. Fugitive PE shall not exceed 0.98 ton/year.

iii. PE shall be controlled at all times when this emissions unit is in operation through the use of a baghouse with a control efficiency of no less than 99% and the capture efficiency of no less than 99% for the control of emissions from the silo (silo storage, loading of silo, and unloading of silo into truck or plant).

c. The installation and use of hoods, fans, and/or other equipment to adequately enclose, contain, capture, vent, and control fugitive dust from this emissions unit shall meet the following requirements:

i. The collection efficiency shall be sufficient to minimize or eliminate VE of fugitive dust as the point(s) of capture to the extent possible with good engineering design; and

ii. The control equipment for this emissions unit shall achieve an outlet emission rate of no greater than 0.030 grain of PE per dry standard cubic foot of exhaust gases or there shall be no visible PE (whichever is less stringent) from the exhaust stack of this emissions unit.

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(A)(3) and OAC rule 3745-17-08(B).

c) Operational Restrictions

(1) PE shall be controlled at all times when this emissions unit is in operation through the use of a baghouse with a control efficiency of no less than 99% and the capture efficiency of no less than 99% for the control of emissions from the silo (silo storage, loading of silo, and unloading of silo into truck or plant).

d) Monitoring and/or Recordkeeping 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 exhaust 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 from the stack, the permittee shall also note the following in the operations log:

a. the location and color of the emissions;

b. the total duration of any visible emissions incident; and

c. any corrective actions taken to eliminate the visible emissions.

(2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) 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 location and 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 emissions incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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.

e) Reporting Requirements

(1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitations:

PE from the stack serving this emissions unit shall not exceed 0.27 lb/hr, and 0.98 ton/yr.

Applicable Compliance Method:

The above emissions limitations are based on the following calculations:

Silo Loading:

(0.61 lb of PE/ton of lime)(31,980 lbs/hr)(1 ton/2,000 lbs)(0.99)(1-0.99) = 0.088407 lb of PE/hr

*(0.61 lb of PE/ton of lime)(15,960 lbs/hr)(1 ton/2,000 lbs)(0.99)(1-0.99)(8,760 hrs/yr)(1 ton/2,000 lbs) = 0.215363272 ton of PE/yr

*Annual values do not represent maximum hourly emissions X 8,760 hrs/yr since the maximum annual production rate is limited by the unloading rate of 15,960 lb/hr.

Silo Unloading (auger):

**(2.2 lbs of PE/ton of lime)(15,960 lbs/hr)(1 ton/2,000 lbs)(0.99)(1-0.99) = 0.1738044 lb of PE/hr

**(2.2 lbs of PE/ton of lime)(15,960 lbs/hr)(1 ton/2,000 lbs)(0.99)(1-0.99)(8,760 hrs/yr)(1 ton/2,000 lbs) = 0.761263272 ton of PE/yr

**Material can be unloaded via truck or transferred to plant via auger. Transfer to plant via auger represents worse case emissions.

Total Stack PE:

0.09656361 lb of PE/hr + 0.1738044 lb of PE/hr = 0.27 lb of PE/hr from the stack

0.215363272 ton of PE/yr + 0.761263272 ton of PE/yr = 0.98 ton of PE/yr from the stack.

Where:

0.61 lb of PE/ton of lime = AP-42 Table 11.17-4 Product Loading, enclosed truck emissions factor

2.2 lbs of PE/ton of lime = AP-42 Table 11.17-4 Product Transfer and Conveying emissions factor

31,980 lbs/hr = maximum silo loading rate as submitted in permittee's application

15,960 lbs/hr = maximum silo unloading (auger) rate as submitted in permittee's application

99% = baghouse capture efficiency as submitted in permittee's application.

99% = baghouse control efficiency as submitted in permittee's application.

If required, particulate emissions shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

Compliance with the annual emissions limitation may be assumed provided that the permittee demonstrates compliance with the hourly emissions limitation stated above.

b. Emissions Limitation:

There shall be no visible PE from the stack serving this emissions unit.

Applicable Compliance Method:

If required, visible particulate emissions shall be determined according to USEPA Method 22.

c. Emissions Limitations:

Visible PE from the stack shall not exceed 20% opacity as a six-minute average.

Fugitive PE shall not exceed 20% opacity as a three-minute, average.

Applicable Compliance Method:

If required, visible particulate emissions shall be determined according to USEPA Method 9.

d. Emissions Limitations:

The control equipment for this emissions unit shall achieve an outlet emission rate of no greater than 0.030 grain of PE per dry standard cubic foot of exhaust gases or there shall be no visible PE (whichever is less stringent) from the exhaust stack of this emissions unit.

Applicable Compliance Method:

If required, particulate emissions shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources" and/or USEPA Method 22, and the procedures specified in OAC rule 3745-17-03(B)(7).

e. Emissions Limitation:

Fugitive PE shall not exceed 0.98 ton/year.

Applicable Compliance Method:

Compliance with the above emissions limitation is based on the following calculations:

Silo Loading:

*(0.61 lb of PE/ton of lime)(15,960 lbs/hr)(0.01)(8,760 hrs/yr)(1 ton/2,000 lbs) = 0.21320964 ton of fugitive PE/yr

*Annual values do not represent maximum hourly emissions X 8,760 hrs/yr since the maximum annual production rate is limited by the unloading rate of 15,960 lb/hr.

Silo Unloading (auger):

(2.2 lbs of PE/ton of lime)(15,960 lbs/hr)(1 ton/2,000 lbs)(0.01)(8,760 hrs/yr)(1 ton/2,000 lbs) = 0.7689528 ton of fugitive PE/yr

Total Fugitive PE:

0.21320964 ton of PE/yr + 0.7689528 ton of PE/yr = 0.98 ton of fugitive PE/yr

Where:

0.61 lb of PE/ton of lime = AP-42 Table 11.17-4 Product Loading, enclosed truck emissions factor

2.2 lbs of PE/ton of lime = AP-42 Table 11.17-4 Product Transfer and Conveying emissions factor

15,960 lbs/hr = maximum silo unloading (auger) rate as submitted in permittee's application

1% = baghouse capture loss as submitted in permittee's application.

f. Emissions Limitation:

PE shall not exceed 5.46 lbs/hr.

Applicable Compliance Method:

If required, particulate emissions shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

g) Miscellaneous Requirements

(1) None.