



State of Ohio Environmental Protection Agency

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Columbus, OH 43216-1049

9/1/2009

DAVID GENNARO
SOIL REMEDIATION INC
6065 ARREL-SMITH RD
LOWELLVILLE, OH 44436

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 0250050885
Permit Number: P0105320
Permit Type: Renewal
County: Mahoning

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR
No	CEMS
No	MACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

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.

Ohio EPA maintains a document entitled "Frequently Asked Questions about the PTIO". The document can be downloaded from the DAPC Web page, www.epa.state.oh.us/dapc, from the "Permits" link. This document contains additional information related to your permit, such as what activities are covered under the PTIO, who has enforcement authority over the permit and Ohio EPA's authorization to inspect your facility and records. Please contact the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469 if you need assistance.

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission ("ERAC") under Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and describe the action complained of and the grounds for the appeal. The appeal must be filed with the ERAC within thirty (30) days after notice of the Director's action. A filing fee of \$70.00 must be submitted to the ERAC with the appeal, although the ERAC, has discretion to reduce the amount of the filing fee if you can demonstrate (by affidavit) that payment of the full amount of the fee would cause extreme hardship. If you file an appeal of this action, you must notify Ohio EPA of the filing of the appeal (by providing a copy to the Director) within three (3) days of filing your appeal with the ERAC. Ohio EPA requests that a copy of the appeal also be provided to the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the ERAC at the following address:

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

If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Northeast District Office. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page www.epa.state.oh.us/dapc.

Sincerely,

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

Cc: Ohio EPA-NEDO

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director



**State of Ohio Environmental Protection Agency
Division of Air Pollution Control**

FINAL

**Air Pollution Permit-to-Install and Operate
for
SOIL REMEDIATION INC**

Facility ID: 0250050885
Permit Number: P0105320
Permit Type: Renewal
Issued: 9/1/2009
Effective: 9/1/2009
Expiration: 9/1/2019



Air Pollution Permit-to-Install and Operate
for
SOIL REMEDIATION INC

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Authorization

Facility ID: 0250050885
Application Number(s): A0038174
Permit Number: P0105320
Permit Description: renewal permit
Permit Type: Renewal
Permit Fee: \$0.00
Issue Date: 9/1/2009
Effective Date: 9/1/2009
Expiration Date: 9/1/2019
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

SOIL REMEDIATION INC
6065 ARREL SMITH RD
LOWELLVILLE, OH 44436

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, Northeast District Office
2110 East Aurora Road
Twinsburg, OH 43087
(330)425-9171

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

Chris Korleski
Director



Authorization (continued)

Permit Number: P0105320
Permit Description: renewal permit

Permits for the following emissions unit(s) or groups of emissions units are in this document as indicated below:

Emissions Unit ID:	F001
Company Equipment ID:	parking lots and roadways
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F002
Company Equipment ID:	Storage of soils
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P902
Company Equipment ID:	SRU #1
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



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Final Permit-to-Install and Operate

Permit Number: P0105320

Facility ID: 0250050885

Effective Date: 9/1/2009

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. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. 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 taken by 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, Northeast 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 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 emission 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.

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



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Final Permit-to-Install and Operate

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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.



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B. Facility-Wide Terms and Conditions



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Division of Air Pollution Control

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Permit Number: P0105320

Facility ID: 0250050885

Effective Date: 9/1/2009

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.



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C. Emissions Unit Terms and Conditions



1. F001, parking lots and roadways

Operations, Property and/or Equipment Description:

parking lots and roadways

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 operations(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. 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 3745-17-07 (B)(4)	no visible particulate emissions except for 6 minutes during any 60-minute period see b)(2)a
b.	OAC rule 3745-17-08 (B)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust see b)(2)a see b)(2)c, and b)(2)e through b)(2)i
c.	OAC rule 3745-17-07 (B)(5)	no visible particulate emissions except for 13 minutes during any 60-minute period see b)(2)b



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	OAC rule 3745-17-08 (B)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust see b)(2)b see b)(2)d, and b)(2)e through b)(2)i

(2) Additional Terms and Conditions

- a. The paved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

paved roadways:

soil plant roadways

paved parking areas:

office parking

- b. The unpaved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

unpaved roadways:

crusher roadways

unpaved parking areas:

unpaved parking

- c. The permittee shall employ reasonably 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 by sweeping, and/or watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- d. The permittee shall employ reasonably available control measures on all unpaved roadways and parking areas for the purpose of ensuring



compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with water and/or any other suitable dust suppression chemicals or maintaining proper aggregate cover at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- e. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- f. Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.
- g. The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- h. Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- i. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

c) Operational Restrictions

- (1) A maximum speed limit of 10 miles per hour shall be posted and enforced on the property.



d) Monitoring and/or Recordkeeping Requirements

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

<u>paved roadways and parking areas</u>	<u>minimum inspection frequency</u>
soil plant roadways	weekly
office parking	weekly
<u>unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
crusher roadways	weekly
unpaved parking	weekly

(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 Ohio EPA Northeast District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

(4) The permittee shall maintain records of the following information:

- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
- c. the dates the control measures were implemented; and
- d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.



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

- f) Reporting Requirements
 - (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director 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. The reports shall contain information that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

- g) Testing Requirements
 - a. Emission Limitation:

No visible PE from unpaved roadways and parking areas except for a period of time not to exceed 13 minutes during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible PE limitation listed 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").

 - b. Emission Limitation:

No visible PE from paved roadways and parking areas except for a period of time not to exceed 6 minutes during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible PE limitation listed 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").



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h) Miscellaneous Requirements

(1) None.



2. F002, Storage of soils

Operations, Property and/or Equipment Description:

load-in and load-out of storage piles (see Section A.2.a for identification of storage piles) wind erosion from storage piles (see Section A.2.a for identification of storage piles)

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 operations(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. 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 3745-35-05 (A)(3) (PTI No. 02-20753)	no visible PE except for 1 minutes during any 60-minute period
b.	OAC rule 3745-35-05 (A)(3) (PTI No. 02-20753)	best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See b)(2)a through b)(2)e)

(2) Additional Terms and Conditions

a. 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 application, the permittee has committed to ensure sufficient moisture by addition of water



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

- b. 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.
- c. 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 application, permittee has committed to ensure sufficient moisture content by addition of water to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- d. 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.
- e. 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.

c) Operational Restrictions

- (1) All contaminated soil shall be stored in an enclosure with a paved floor. At a minimum, the enclosed area shall be comprised of a three-sided building with a complete roof over the stored material. Soil to be processed may be moved to a staging area nearer the processing unit. The staging area shall also be paved.

d) Monitoring and/or Recordkeeping Requirements

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



storage pile identification minimum load-in inspection frequency

- cleaned soil piles daily when used
- cleaned aggregate piles daily when used
- staged contaminated soil piles daily when used
- contaminated soil storage sheds daily when used

(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

- cleaned soil piles daily when used
- cleaned aggregate piles daily when used
- staged contaminated soil piles daily when used
- contaminated soil storage sheds daily when used

(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

- cleaned soil piles weekly
- cleaned aggregate piles weekly
- staged contaminated soil piles weekly
- contaminated soil storage sheds weekly

(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 Ohio EPA Northeast 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 d)(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) Reporting Requirements

- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director 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. The reports shall contain information that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:



a. Emission Limitation:

No visible PE except for one minute during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible PE limitation listed 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").

g) Miscellaneous Requirements

(1) None.



3. P902, SRU #1

Operations, Property and/or Equipment Description:

soil and aggregate remediation system, portable SRU #1 Unit with baghouse and thermal oxidizer

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 operations(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. 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) (PTI No. 02-20753)	Particulate emissions (PE) shall not exceed 0.04 grains per dry standard cubic foot of exhaust gases and 11.5 pounds per hour.
b.	OAC rule 3745-31-05 (A)(3) (PTI No. 02-20753)	Organic compound (OC) emissions shall not exceed 8.33 lbs/hr and 8.33 TPY. Lead (Pb) emissions shall not exceed 0.2 lb/hr and 0.2 TPY. Carbon monoxide (CO) emissions shall not exceed 10 lbs/hr and 10.0 TPY. Nitrogen oxide (NOx) emissions shall



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		not exceed 3 lbs/hr and 3.0 TPY. Sulfur dioxide (SO ₂) emissions shall not exceed 2.2 lbs/hr and 2.2 TPY. PE shall not exceed 11.5 TPY.
c.	OAC rule 3745-31-05 (A)(3) (PTI No. 02-20753)	Visible particulate emissions from this emissions unit shall not exceed 5% as a 6-minute average, for not more than six consecutive minutes in any sixty minutes, but shall not exceed 20% opacity, as a six minute average, at anytime.
d.	OAC rule 3745-31-05 (A)(3) (PTI No. 02-20753)	Visible particulate emissions from the conveying and handling of soil shall not exceed 10% as a 3-minute average.
e.	OAC rule 3745-31-05 (F)	See b)(2)e. No more than 600 tons per day nor 50,000 tons per year of contaminated soils shall be processed by this emissions unit.
f.	OAC rule 3745-17	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
g.	OAC rule 3745-21-07	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. Fugitive dust from this emissions unit shall be controlled by the use of covered conveyors and set suppression at drop points into and out of the thermal treatment unit.
- b. All soil transferred to any elevated storage bins shall contain sufficient moisture so as to minimize or eliminate visible emissions of fugitive dust.



- c. The area beneath and around this emissions unit shall be paved and kept clean from either contaminated soil or processed material as much as possible.
- d. "Organic compound" means any chemical compound containing carbon excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides, metallic carbonates, ammonium carbonate, methane (except methane from landfill gases), and ethane.
- e. The total petroleum hydrocarbon concentration of the contaminated soils processed in this emissions unit shall not exceed two (2) percent by weight.

The total petroleum hydrocarbon concentration of the contaminated soils processed in this emissions unit shall not exceed 0.5 percent by weight on an annual basis.

c) Operational Restrictions

- (1) While the emissions unit is in operation, the pressure drop across the baghouse shall be maintained within the range established during the most recent performance test.
- (2) All exhaust from the rotary kiln must pass through the fabric filter then through the thermal oxidizer. Exhaust gases must have a minimum of five (5) second residence time within the thermal oxidizer combustion chamber. The combustion temperature within the thermal oxidizer shall not be below 1450 degrees Fahrenheit.
- (3) The thermal oxidizer shall have a minimum organic compound destruction efficiency of 99.0%.
- (4) The primary treatment unit (rotary kiln) shall operate at a minimum temperature of 450 degrees Fahrenheit.
- (5) Except as allowed pursuant to b)(2)e of these terms, only soils and aggregate contaminated with petroleum products shall be treated in this emissions unit, which includes but is not limited to:
 - a. No. 1 fuel oil;
 - b. No. 2 fuel oil;
 - c. No. 4 fuel oil;
 - d. No. 6 fuel oil;
 - e. gasoline;
 - f. jet fuel;



- g. diesel fuel;
- h. airplane fuel;
- i. kerosene; and
- j. manufactured gas plant (MGP).

Soils contaminated with any other petroleum type products or fuels will require either Ohio EPA evaluation and approval or a permit to install modification.

- (6) The through-put of remediated soils and aggregate shall not exceed 600 tons per day nor 50,000 tons per year.
 - (7) Only natural gas, propane, or No.2 fuel oil may be used in the rotary kiln burner and the thermal oxidizer.
 - (8) All waste separated from the incoming contaminated soils, such as plastic, drums, stone, concrete, and asphalt, shall be properly stored, in dumpsters and aggregate piles, and shall be disposed of properly and in a timely manner.
 - (9) At no time shall more than two weeks worth of contaminated soil, based on the tested operating rate of this emissions unit, be stored on site.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall operate and maintain continuous temperature monitors and recorders which measure and record temperature within the rotary kiln, and the thermal oxidizer when the emissions unit is in operation. Units shall be in degrees Fahrenheit or Centigrade. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitors and recorders shall be installed, calibrated, operated and maintained in accordance with manufacturer's recommendations, with any modifications deemed necessary by the permittee.
 - (2) The following soil sampling shall be performed at the soil generating site, before receipt of the material by the permittee:
 - a. When remediating petroleum contaminated soil from a site which is regulated by the State Fire Marshal - Bureau of Underground Storage Regulation (BUSTR), the permittee shall ensure that soil sampling is performed and the result obtained before accepting or remediating the soil. A representative sample(s) shall be analyzed and the results certified by an independent laboratory for organic compounds. Sampling and analysis shall be conducted in accordance with BUSTR's Soil Policy and requirements. BUSTR required site sampling shall fulfill this requirement.
 - b. When remediating contaminated soil that does not originate at a site regulated by BUSTR, the permittee shall comply with the following:



- i. require that sampling of the soil from the contaminated site be performed, either by this permit holder or by the generator of the soil, before accepting or remediating the soil. A representative sample(s) shall be analyzed and the results certified by an independent laboratory for organic compounds, and any heavy metals, halogenated organic compound or hazardous waste constituents above normal soil background levels, before it is received on site. Sampling and analysis shall be in accordance with BUSTR's Policy for organic compounds and Ohio EPA and/or U.S. EPA policy or requirements for the other contaminants; and
- ii. either certify and demonstrate the following, or require that the material generator certify and provide documentation which demonstrates that the soil:
 - (a) does not contain a listed hazardous waste;
 - (b) is not hazardous by characteristic as defined by Ohio EPA or U.S. EPA; and
 - (c) is not a regulated under TSCA.

This certification must be in writing and must include a statement that, to the best of their knowledge, the soil conforms to this criteria.

The permittee shall possess a copy of the laboratory analysis and certification (if required above) for each shipment received, and maintain it on file and readily accessible to any Ohio EPA or BUSTR representative for a period of three years.

- (3) The permittee shall obtain a composite sample of soil to be remediated. The composite shall be analyzed by an independent laboratory. The results shall include the total organic compound contamination (weight percent).
- (4) The permittee shall collect a daily composite sample of soil to be remediated. The composite shall be analyzed by an independent laboratory. The results shall include the total organic compound contamination (weight percent).
- (5) The permittee shall collect a daily composite sample of soil that has been remediated. The composite shall be analyzed by an independent laboratory. The results shall include testing for benzene, toluene, ethylbenzene, xylene, and total organic compounds, in accordance with the Ohio EPA PCS Policy (PP01 03 200).
- (6) The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and



operating manual(s). The permittee shall record the pressure drop across the baghouse on daily basis.

- (7) The permittee shall have scales capable of weighing both the amount of soil delivered or brought into the site on a daily basis, and capable of weighing the amount of soil charged to the rotary kiln on an hourly basis. The records of the weights shall be maintained for a period of at least two years.
- (8) The permittee shall maintain daily records of the following:
 - a. the total hours of operation of the rotary kiln;
 - b. the type and amount of total fuel consumed;
 - c. the quantity of contaminated soil brought onto the site, and the total on site;
 - d. the quantity of soil charged to the rotary kiln;
 - e. the date of receipt of all soil shipments brought onto the site;
 - f. the location from which all soil shipments originated;
 - g. a description of the location from which all soil shipments originated;
 - h. the total organic compound (OC) and total petroleum hydrocarbons (TPH) concentration (weight percent) in all soil shipments received; and
 - i. the total quantity of hydrocarbons contained in each soil shipment: (sum of OC and TPH, weight percent) x (quantity of soil).
- (9) The permittee shall maintain records of the total petroleum hydrocarbon concentration of the contaminated soils processed in this emissions unit, as a percent by weight, on an annual basis.

e) Reporting Requirements

- (1) The permittee shall submit deviation (excursion) reports which identify all exceedances of:
 - a. the above-mentioned allowable pressure drop range;
 - b. the above-mentioned allowable temperature limits for the thermal oxidizer and the rotary kiln;
 - c. the daily rotary kiln through-put limitation of 600 tons per day;
 - d. the treatment of any soil or aggregate restricted in c)(5);



- e. the processing of any contaminated soil with a total petroleum hydrocarbon concentration exceeding two percent by weight; and
 - f. the use of any fuels other than clean burning fuels.
- (2) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director 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. The reports shall contain information that identifies all exceedances of the annual limitations. The annual limitations include both throughput and percent by weight limitations.
- (3) The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
- f) **Testing Requirements**
- (1) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted within one year of issuance of this permit and at approximately 2.5 year intervals starting with the date of the last test that showed compliance.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for organic compounds, lead, and particulate emissions. The emission testing shall also be conducted to demonstrate compliance with the OC control efficiency requirements specified in c)(3).
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable emission rate(s); for particulate matter, Methods 1-5 of 40 CFR Part 60, Appendix A, for organic compounds, Method 18, 25, or 25A of 40 CFR Part 60, Appendix A, and for lead, Method 29 of 40 CFR Part 60, Appendix A.
 - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, using a prepared mixture of soil and petroleum products, with a total petroleum hydrocarbon concentration of approximately two percent by weight, unless otherwise specified or approved by the Ohio EPA Northeast District Office.
 - e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating



parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northeast District Offices refusal to accept the results of the emission test(s).

- f. Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

(2) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:

- a. Emission Limitation:

Visible particulate emissions from this emissions unit shall not exceed 5% as a 6-minute average, for not more than six consecutive minutes in any sixty minutes, but shall not exceed 20% opacity, as a six minute average, at anytime.

Applicable Compliance Method:

Compliance shall be determined by visible emission evaluations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

- b. Emission Limitation:

Visible fugitive particulate emissions from this emission unit shall not exceed 10% as a 3-minute average.

Applicable Compliance Method:

Compliance with the visible emission limitation for the fugitive particulate emissions 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) and (B)(3)(b) of OAC rule 3745-17-03.

- c. Emission Limitation:

Particulate emissions (PE) shall not exceed 0.04 grains per dry standard cubic foot of exhaust gases and 11.5 pounds per hour.



Applicable Compliance Method:

Compliance shall be based on emission testing as specified in f)(1).

d. Emission Limitation:

OC emissions shall not exceed 8.33 lbs/hr.

Applicable Compliance Method:

Compliance shall be based on emission testing as specified in f)(1).

e. Emission Limitation:

Pb emissions shall not exceed 0.2 lb/hr.

Applicable Compliance Method:

Compliance shall be based on emission testing as specified in f)(1).

f. Emission Limitation:

Carbon monoxide (CO) emissions shall not exceed 10 lbs/hr and 10.0 TPY.

Applicable Compliance Method:

Compliance with the hourly emission rate shall be based upon calculations using emission factors from the AP-42, Chapter 11.1, Table 11.1-5, (3/04) for asphalt plants. The TPY emission limitation was developed by multiplying the short term allowable by the maximum annual hours of operation (based on tonnage limitation of b)(1)e), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

g. Emission Limitation:

Nitrogen oxide (NOx) emissions shall not exceed 3 lbs/hr and 3.0 TPY.

Applicable Compliance Method:

Compliance with the hourly emission rate shall be based upon calculations using emission factors from the AP-42, Chapter 11.1, Table 11.1-5, (3/04) for asphalt plants. The TPY emission limitation was developed by multiplying the short term allowable by the maximum annual hours of operation (based on tonnage limitation of b)(1)e), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.



h. Emission Limitation:

Sulfur dioxide (SO₂) emissions shall not exceed 2.2 lbs/hr and 2.2 TPY.

Applicable Compliance Method:

Compliance with the hourly emission rate shall be based upon calculations using emission factors from the AP-42, Chapter 11.1, Table 11.1-5, (3/04) for asphalt plants. The TPY emission limitation was developed by multiplying the short term allowable by the maximum annual hours of operation (based on tonnage limitation of b)(1)e), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

i. Emission Limitation:

OC emissions shall not exceed 8.33 TPY, PE shall not exceed 11.5 TPY, and, Pb emissions shall not exceed 0.2 TPY.

Applicable Compliance Method:

The TPY emission limitation shall be determined by multiplying the short term emission rates (determined in f)(1)) by the annual hours of operation (based on the summation of d)(8)a), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

g) Miscellaneous Requirements

(1) The permittee may relocate the portable source within the State of Ohio without first obtaining a permit-to-install and operate (PTIO) or a permit-to-install (PTI), providing the appropriate exemption requirements have been met and following the approval of the Director (the appropriate Ohio EPA District Office or local air agency). The Director may issue a "Notice of Site Approval" if the following criteria is met, pursuant to the permanent exemption for portable sources in OAC rule 3745-31-03(A)(1):

- a. the portable source is operated in compliance with any applicable best available technology (BAT) determination issued in a permit and all applicable state and/or federal rules and laws;
- b. the portable source is operating pursuant to a currently effective PTIO or PTI and/or permit to operate (PTO) and continues to comply with the requirements of the permit;
- c. the permittee has provided a minimum of 30 days notice of the intent to relocate the portable source to the permitting authority (the Ohio EPA



District Office or local air agency that has issued the effective current permit) prior to the scheduled relocation;

- d. the Ohio EPA district office or local air agency having jurisdiction over the new site has determined that the permitted emissions would not cause a nuisance and would be acceptable under OAC rule 3745-15-07; and
- e. the Director has issued a "Notice of Site Approval", stating that the proposed site is acceptable and the relocation of the portable source, along with any supporting permitted emissions (e.g. roadways or storage piles), would not result in the installation of a major stationary source or a modification of an existing major stationary source at the new site.

The portable source can be relocated upon receipt of the Director's "Notice of Site Approval" for the site.

- (2) If the relocation of the portable source would result in the installation of a major source or the modification of a major source, as defined in OAC rule 3745-31-01, the permittee shall submit an application and obtain a PTIO or PTI (as applicable) for the new location prior to moving the portable source.

When a portable source is located at a stationary source or at a site with multiple portable sources, the potential emissions of the portable source may be required to be added to that of the facility, in order to determine the potential to emit for Title V and PSD applicability. Relocation of any portable source that results in the creation of a major source, as defined in OAC rule 3745-77-01, must also meet all applicable requirements under the Title V program contained in OAC rule 3745-77, which may include the requirement to apply for a Title V permit.

The "Notice of Intent to Relocate" shall be submitted to the Ohio EPA District Office or local air agency responsible for issuing the permits for the portable source. Upon receipt of the notice, the permitting office shall notify the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site. Failure to submit said notification or failure to receive Ohio EPA approval prior to relocation of the portable source may result in fines and civil penalties.

- (3) A site shall be considered portable if material being processed was generated within two (2) mile radius of the actual location of the rotary kiln remediation system.

The entire area around the soil processing equipment and storage building shall be permanently diked to contain any water runoff, which must be collected and disposed of according to Ohio EPA regulations. Discharge of contaminated water from this facility shall not occur, unless specifically allowed by this permit or by another Ohio EPA or federal permit.