



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
MAHONING COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 02-20753

Fac ID: 0250050885

DATE: 7/19/2005

Soil Remediation, Inc.
David Gennaro
6065 Arrel-Smith Rd.
Lowellville, OH 44436

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

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

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

NEDO



**Permit To Install
Terms and Conditions**

**Issue Date: 7/19/2005
Effective Date: 7/19/2005**

FINAL PERMIT TO INSTALL 02-20753

Application Number: 02-20753
Facility ID: 0250050885
Permit Fee: **\$400**
Name of Facility: Soil Remediation, Inc.
Person to Contact: David Gennaro
Address: 6065 Arrel-Smith Rd.
Lowellville, OH 44436

Location of proposed air contaminant source(s) [emissions unit(s)]:
**6065 Arrel-Smith Rd.
Lowellville, Ohio**

Description of proposed emissions unit(s):
Modification to add an additional waste stream.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

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

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

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

3. Records Retention Requirements

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

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

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the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

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

6. Permit Transfers

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

7. Air Pollution Nuisance

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

8. Termination of Permit to Install

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

9. Construction of New Sources(s)

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

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

10. Public Disclosure

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

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. Best Available Technology

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

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

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

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

Pollutant

Tons Per Year

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CO	10
NOx	3
SO2	2.2
TOC	8.0
PM10	7.8
Lead	0.2

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F002 - load-in and load-out of storage piles (see Section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3)	No visible emissions except for one minute in any hour; and best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b, A.2.c, and A.2.f).
wind erosion from storage piles (see Section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3)	No visible emissions except for one minute in any hour; and best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b, A.2.c, and A.2.f).

2. Additional Terms and Conditions

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

- cleaned soil piles
- cleaned aggregate piles
- staged contaminated soil piles

contaminated soil storage shed

- 2.b** The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the 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.
- 2.c** The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- 2.d** The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to 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.
- 2.e** The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.f** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

B. Operational Restrictions

Emissions Unit ID: F002

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.

C. Monitoring and/or Recordkeeping Requirements

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

storage pile identification	minimum load-in inspection frequency
cleaned soil piles	daily
cleaned aggregate piles	
staged contaminated soil piles	
contaminated soil storage shed	

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-in inspection frequency
cleaned soil piles	daily
cleaned aggregate piles	
staged contaminated soil piles	
contaminated soil storage shed	

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	
staged contaminated soil piles	

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, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
7. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

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

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:

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

E. Testing Requirements

1. Compliance with the visible emission limitations for the storage piles identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

1. This PTI replaces PTI No. 02-5568.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, <u>and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
P902 - Soil and aggregate remediation system - portable	OAC rule 3745-31-05(A)(3)
SRU#1 Unit with baghouse and thermal oxidizer	3745-31-02(A)(2)
	OAC rule 3745-23-06(B)
	OAC rule 3745-21-08(B)
	OAC rule 3745-17-07(A)(1)
	OAC rule 3745-17-11(B)(1)
	OAC rule 3745-17-07(B)

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	<u>Applicable Emissions Limitations/Control Measures</u>	
OAC rule 3745-17-08	Particulate emissions shall not exceed 0.04 grains per dry standard cubic foot of exhaust gases;	See term A.2.g No more than 600 tons per day nor 50,000 tons per year of contaminated soils shall be processed by this emissions unit;
OAC rule 3745-18-06(E)	particulate emissions (PE) shall not exceed 5.2 pounds per hour (lbs/hr);	PE emissions shall not exceed 7.8 tons per year (TPY);
OAC rule 3745-21-07	total organic compound (TOC) emissions shall not exceed 5.3 lbs/hr;	TOC emissions shall not exceed 8.0 TPY;
	lead emissions shall not exceed 0.2 lbs/hr;	lead emissions shall not exceed 0.2 TPY;
	carbon monoxide (CO) emissions shall not exceed 10 lb/hr;	CO emissions shall not exceed 10 TPY;
	nitrogen oxide (NOx) emissions shall not exceed 3 lb/hr;	NOx emissions shall not exceed 3 TPY;
	sulfur dioxide (SO2) emissions shall not exceed 2.2 lb/hr;	SO2 emissions shall not exceed 2.2 TPY;
	visible particulate emissions from this emissions unit stack shall not exceed 5% as a 6-minute average, except as specified by rule; and	See term A.2.e
	visible particulate emissions from the conveying and handling of soil shall not exceed 10% opacity as a 3-minute average.	See term A.2.f
		The emissions limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.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.
- 2.b** All soil transferred to any elevated storage bins shall contain sufficient moisture so as to minimize or eliminate visible emissions of fugitive dust.
- 2.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.
- 2.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.
- 2.e** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.
- 2.f** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the 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 revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.g** 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.

B. 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 an organic compound destruction efficiency of 99.0% at worst case.
4. The primary treatment unit (rotary kiln) shall operate at a minimum temperature of 450 degrees Fahrenheit.
5. Except as allowed pursuant to A.2.6. of these terms, only soils and aggregate contaminated with virgin (non-recycled) petroleum products shall be treated in this emissions unit, which includes only:
 - 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; and
 - i. kerosene
 - 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.

C. 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

Emissions Unit ID: P902

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:
 1. does not contain a listed hazardous waste;
 2. is not hazardous by characteristic as defined by Ohio EPA or U.S. EPA; and
 3. 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.

D. 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 B.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. The permittee shall submit an annual deviation (excursion) report which identify all exceedances of the annual limitations. The annual limitations include both throughput and percent by weight limitations. These reports shall be submitted to the Ohio EPA Northeast District Office by January 31 of each year.
 3. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. 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 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 and lead, and for the particulate emission limitation.
 - 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 emissions limitation(s) in section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
- a. Emission Limitation: 20% opacity of visible particulate emissions

Applicable Compliance Method:

Compliance shall be determined based upon OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation: 0.04 grain of particulate matter per day standard cubic foot of exhaust gases

Applicable Compliance Method:

Compliance shall be based on emission testing specified in E.1 above.
 - c. Emission Limitation: 8.33 pounds per hour of organic compounds

Applicable Compliance Method:

Compliance shall be based on emission testing specified in E.1 above.

- d. Emission Limitation: 0.2 pound per hour of lead
Applicable Compliance Method:
Compliance shall be based on emission testing specified in E.1 above.
- e. Emission Limitation: Visible particulate emissions of fugitive emissions shall not exceed 10 % opacity as a three-minute average.
Applicable Compliance Method:
Compliance shall be based upon OAC rule 3745-17-03 (B)(3).
- f. Emission Limitation: 50.4 tpy particulate emissions and 36.5 tpy organic compound emissions.
Applicable Compliance Method:
Compliance shall be based upon the most recent stack test hourly emission rates multiplied by the yearly hours of operation and divided by 2000.
- g. Emission Limitation: 10 tpy CO, 3 tpy NO_x, 2.2 tpy SO₂ emissions.
Applicable Compliance Method:
Compliance shall be based upon calculations using emission factors from the most recent edition of AP-42, Chapter 11.1 for asphalt plants.
- h. The total petroleum hydrocarbon concentration of the contaminated soils processed in this emissions unit shall not exceed 0.5 percent by weight annually.
Applicable Compliance Method:
Compliance with this limitation shall be based upon the following equation:
$$E = (Q - C)/C + 100$$

F. Miscellaneous Requirements

1. This PTI replaces PTI No. 02-5568.
2. Pursuant to OAC rule 3745-31-03(A)(1)(p), the permittee of a portable source may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing certain criteria are met. The portable source shall meet one of the two following scenarios in order to qualify for this PTI exemption for the new location:
 - a. The following determinations have been documented, pursuant to OAC rule 3745-31-03(A)(1)(p)(i):
 - i. the portable source is equipped with the best available technology for such portable source;
 - ii. the portable source is operating pursuant to a currently effective permit to install, permit to operate (PTO), or registration status;
 - iii. the applicant has provided proper notice of the intent to relocate the portable source to the (1.) Ohio EPA District Office or local air agency responsible for the permit(s) for the source and (2.) the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site within a minimum of 30 days prior to the scheduled relocation; and
 - iv. in the judgement of the Ohio EPA District Office or local air agency having jurisdiction over the new site, the proposed site is acceptable under OAC rule 3745-15-07.
 - a. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable source may relocate within the State of Ohio without first obtaining a PTI, providing the following criteria of OAC rule 3745-31-05(E) are met:
 - i. the portable source permittee possesses an Ohio EPA PTI, PTO or registration status;
 - ii. the portable source is equipped with best available technology;
 - iii. the portable source owner has identified the proposed site to Ohio EPA;
 - iv. Ohio EPA has determined that the portable source, at the proposed site, will have an acceptable environmental impact;
 - v. a public notice, consistent with OAC Chapter 3745-47, is published in the

county where the proposed site is located;

- vi. the owner of the proposed site has provided the portable source owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable source to this proposed site; and
- vii. the portable source owner has provided Ohio EPA with 15 days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

In order for the permitting Ohio EPA District Office or local air agency and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee of the portable source must file a " Notice of Intent to Relocate" within the specified time frame (30 or 15 days), prior to the relocation of the portable source with the Ohio EPA District Office or local air agency responsible for the permits for the source and the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site. Upon receipt of the notice, the Ohio EPA District Office or local air agency responsible for the permits for the portable source, and/or appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the portable source may result in fines and civil penalties.

Pursuant to OAC rule 3745-31-05(F), the Director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

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.
4. 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.

Soil Remediation, Inc.
PTI Application: 02-20752
Issue:

Facility ID: 025005088

Emissions Unit ID: P902

5. Delivery Manifest (or Bill of Lading) Certification

The soil generator must certify to the driver of the delivery vehicle, on the manifest, that the material is non-hazardous as defined by Ohio EPA or U.S. EPA. The driver must certify on the manifest upon delivery, that the material was received from the generator and that it is unchanged from time of receipt. If the soil is at any time owned or possessed by any intermediate party, they must certify in writing (on the manifest or a certification document) that the soil remains unchanged from initial receipt.

The delivery manifest, soil certification and documentation shall be verified by the permittee before unloading any contaminated soil.