State of Ohio Environmental Protection Agency

RE: FINAL PERMIT TO INSTALL **CERTIFIED MAIL**
MEDINA COUNTY

Street Address:
122 S. Front Street
Lazarus Gov. Center **TELE:** (614) 644-3020 **FAX:** (614) 644-2329
Mailing Address:
Lazarus Gov. Center
P.O. Box 1049

Application No: 16-02296

DATE: 6/24/2003

Processing and Recycling Equipment LLC
Stephen Forker
7683 Hartman Road
Wadsworth, OH 44281

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

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA **ARAQMD**

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install	**Issue Date: 6/24/2003**
Terms and Conditions	**Effective Date: 6/24/2003**

FINAL PERMIT TO INSTALL 16-02296

Application Number:	16-02296
APS Premise Number:	1652950001
Permit Fee:	**$1400**
Name of Facility:	Processing and Recycling Equipment LLC
Person to Contact:	Stephen Forker
Address:	7683 Hartman Road Wadsworth, OH 44281

Location of proposed air contaminant source(s) [emissions unit(s)]:
7683 Hartman Road
Wadsworth, **Ohio**

Description of proposed emissions unit(s):
Portable aggregate screening system and associated roadways and material storage piles.

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 the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

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

6. Permit Transfers

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

7. Air Pollution Nuisance

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

8. Termination of Permit to Install

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

9. Construction of New Sources(s)

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

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
particulates	67.09 (fugitive emissions)
NOx	10.89 (stack emissions)
CO	2.35 (stack emissions)

Emissions Unit ID: **F001**

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, and/or Equipment	Applicable Rules/Requirements	40 CFR Part 60 Subpart OOO
F001 (Finlay 683 SuperTrak Portable Screening System) portable, 0.56 mmBtu/hr maximum heat input diesel-powered, 300 TPH design production capacity aggregate screening/conveying operation with 5 material belt conveyors (for total of 6 material transfer points including front-end loader dumping onto feeder conveyor), air emissions of particulates from conveying and screening uncontrolled and fugitive, diesel exhaust, including nitrogen oxides (NOx) and carbon monoxide (CO) uncontrolled and vented to air through stack	OAC rule 3745-31-05(A)(3)	
		OAC rule 3745-17-11(B)(5)(a)
		OAC rule 3745-18-06
		OAC rule 3745-17-07(A) OAC rule 3745-17-07(B) OAC rule 3745-17-08(B)
		OAC rule 3745-21-08(B) OAC rule 3745-23-06(B)

Applicable Emissions Limitations/Control Measures	
The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rules 3745-17-07, 3745-17-08, 3745-17-11(B)(5)(a), 3745-18-06, 3745-21-08, and 3745-23-06 and federal rule 40 CFR Part 60 Subpart OOO.	discharged to the atmosphere from any screening operation nor material transfer point any fugitive emissions which exhibit greater than 10% opacity. Compliance with this opacity limitation shall have been achieved on and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup.
Fugitive Emissions: 10% opacity as a 3-minute average (front-end loader dumping onto feeder conveyor)	0.310 lb particulates/mmBtu heat input
14.74 lbs/hr & 64.57 tpy particulates	Exempt pursuant to OAC rule 3745-18-06(B).
The permittee shall employ best available control measures, such as sufficient inherent moisture in the process material and limiting material drop heights, that are sufficient to minimize or eliminate visible emissions of fugitive dust to the extent possible with good engineering design. If necessary, the permittee shall install equipment to apply water at appropriate locations in the operation.	The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05 (A)(3) and 40 CFR Part 60 Subpart OOO. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) and the "latest available control techniques and operating practices" required pursuant to 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.
Stack Emissions: 5% opacity as a 6-minute average; 2.49 lbs/hr & 10.89 tpy NOx; and 0.54 lb/hr & 2.35 tpy CO.	
The permittee shall not cause to be	

2. Additional Terms and Conditions

2.a The 14.74 lbs/hr, 64.57 tpy particulates; 2.49 lbs/hr, 10.89 tpy NOx; and 0.54 lb/hr, 2.35 tpy CO emissions limits regulated per OAC rule 3745-31-05(A)(3) are based upon accepted USEPA potential to emit procedures for this emissions unit. Therefore, no associated record keeping and reporting are required to demonstrate compliance with these emissions limits.
However, if any proposed change(s), such as with production capacity, operational procedures, or any dust control methods, or anything else that increase(s) the potential to emit, then the permittee shall apply for and obtain either a modification to the permit to install or a new final permit to install prior to the change(s).

2.b The material handling operations (and transfer points) that are part of this emissions unit, covered by this permit, and subject to the above-mentioned requirements are listed below:

Front-End Loader - Feed Conveyor;
Feed Conveyor - Screen;
Screen - Main Conveyor;
Screen - Side #1 Conveyor;
Screen - Side #2 Conveyor; and
Screen - Fines Conveyor.

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

material handling operation(s)	control measure(s)
front-end loader dumping onto feed conveyor	maintain a low drop height and a high moisture content for the material being processed
all conveyor and transfer points	maintain a high moisture content for the material being processed or employ wet screening

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

2.d For each material handling operation that is not adequately enclosed, the above-identified

control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

2.e Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

1. The permittee shall only use diesel fuel (or number 2 fuel oil) with a maximum sulfur content of 0.5% by weight for combustion in this emissions unit.

C. Monitoring and/or Record keeping Requirements

1. For each day a fuel other than the fuel specified above is burned, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit. The permittee shall also maintain documentation of the sulfur content of all fuels received.

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the screening operations. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

   a. color of the emissions;
   b. whether the emissions are representative of normal;
   c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
   d. total duration of any visible emission incident; and
   e. any corrective actions taken to eliminate the visible emissions.

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

material handling operation(s)	minimum inspection frequency
All	Daily

4. The above-mentioned inspections shall be performed during representative, normal operating conditions.

5. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

6. The permittee shall maintain records of the following information:

   a. the date and reason any required inspection was not performed;

   b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s):

   c. the dates the control measure(s) was (were) implemented; and

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

   The information in 6.d. shall be kept separately for each material handling operation identified above and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

7. The permittee shall maintain record of the dates and places in which this emissions unit is relocated.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day during which a fuel other than the fuel specified above was burned in this emissions unit.

2. The permittee shall submit deviation (excursion) reports that identify any of the following occurrences:

   a. each day during which an inspection was not performed by the required frequency;

   b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented; and

   c. each day during which any visible particulate emissions were observed from the screening operations serving this emissions unit, and all corrective actions taken to eliminate the visible

particulate emissions.

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

4. The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR Part 60, Subpart OOO, including the reports of opacity observations made using Method 9 to demonstrate compliance with this subpart.

5. The permittee of any screening operation or belt conveyor that processes saturated material and is subject to the no visible emission limit and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. This screening operation or belt conveyor is then subject to the 10 percent opacity limit and the emission test requirements of Section 60.11 of 40 CFR Part 60, subpart A and 40 CFR Part 60, subpart OOO. Likewise a screening operation or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change. This screening operation or belt conveyor is then subject to the no visible emission limit.

6. The permittee shall submit the following information for each piece of equipment that is replaced by a piece of equipment having the same function as the existing facility:

   a. for a grinding mill, bagging operation, or enclosed truck or railcar loading station:

      i. the rated capacity in tons per hour of the existing facility being replaced;

      ii. the rated capacity in tons per hour of the replacement equipment;

   b. for a screening operation:

      i. the total surface area of the top screen of the existing screening operation being replaced;

      ii. the total surface area of the top screen of the replacement screening operation;

   c. for a conveyor belt:

      i. the width of the existing belt being replaced;

      ii. the width of the replacement conveyor belt;

   d. for a storage bin:

      i. the rated capacity in tons of the existing bin being replaced; and

      ii. the rated capacity in tons of replacement storage bins.

   The notification shall be submitted within 30 days after equipment replacement.

7. Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

   a. construction date (no later than 30 days after such date);
   b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
   c. actual start-up date (within 15 days after such date); and
   d. date of performance testing (If required, at least 30 days prior to testing).

   The reports shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Air Quality Modeling and Planning
P.O. Box 1049
Columbus, OH 43216-1049

and

Akron Regional Air Quality Management District
146 South High Street, Room 904
Akron, OH 44308

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 within 90 days after the final issuance of this permit.

   b. The emission testing shall be conducted to demonstrate compliance with opacity emission limitations for the primary screen and transfer points listed in Section A.2.c of these terms and conditions with an emission limitation of 10% opacity and subject to 40 CFR Part 60, subpart OOO. The emission testing is not required for wet screening operations and subsequent screening operations, and belt conveyors that process saturated material in the production line up to, but not including the next crusher, grinding mill or storage bin, or for screening operations, and belt conveyors in the production line downstream of wet mining operations, that process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.

   c. The following test method(s) shall be employed to demonstrate compliance: for particulate emissions Method 9 of 40 CFR Part 60, Appendix A and the procedures in Section 60.11 of 40 CFR Part 60, subpart A, with the following additions:

      i. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).

      ii. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer

position relative to the sun (Method 9, Section 2.1) must be followed.

iii. For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.

d. When demonstrating compliance with the fugitive emissions standard for any screen at which a capture system is not used as described under Section 60.672(c) of 40 CFR Part 60, subpart OOO, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:

i. There are no individual readings greater than 15 percent opacity; and

ii. There are no more than 3 readings of 15 percent for the 1-hour period.

e. When demonstrating compliance with the fugitive emissions standard for the primary screening operation, the surge bin, and the transfer points listed in Section A.2.c of these terms and conditions with an emission limitation of 10% opacity and subject to 40 CFR Part 60, subpart OOO, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:

i. There are no individual readings greater than 10 percent opacity; and

ii. There are no more than 3 readings of 10 percent for the 1-hour period.

f. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

2. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 District Office's or local air agency's refusal to accept the results of the emission test(s).

3. Personnel from the appropriate Ohio EPA District Office or local air agency 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.

4. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

5. The initial performance tests required in Sections E.1 through E.4 of these terms and conditions is not required for wet screening operations and subsequent screening operations, and belt conveyors that process saturated material in the production line up to, but not including, the next crusher, grinding mill, or storage bin.

6. Compliance with the emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods using applicable emission factors, as noted:

   a. Emission Limitations: 2.49 lbs/hr & 10.89 tpy NOx (diesel exhaust stack emissions)

      Applicable Compliance Method: The above emission limitations were established based upon the potential to emit as demonstrated in the equations below:

      H = ND;
      Y = H(8760 hrs/yr)(1 ton/2000 lbs);

      Where,

      H = 2.49 lbs/hr NOx [hourly potential to emit];
      Y = 10.89 tpy NOx [yearly potential to emit];
      N = 4.41 lbs/mmBtu [AP-42, 10/96, Table 3.3-1 nitrogen oxides emission factor]; and
      D = 0.56 mmBtu/hr [maximum heat input].

   b. Emission Limitations: 0.54 lb/hr & 2.35 tpy CO (diesel exhaust stack emissions)

      Applicable Compliance Method: The above emission limitations were established based upon the potential to emit as demonstrated in the equations below:

      H = CD;
      Y = H(8760 hrs/yr)(1 ton/2000 lbs);

Where,

H = 0.54 lb/hr CO [hourly potential to emit];
Y = 2.35 tpy CO [yearly potential to emit];
C = 0.95 lbs/mmBtu [AP-42, 10/96, Table 3.3-1 carbon monoxide emission factor]; and
D = 0.56 mmBtu/hr [maximum heat input].

c. Emission Limitation: 0.310 lb particulates/mmBtu actual heat input (diesel exhaust stack emissions)

Applicable Compliance Method: The above particulates emission limitation is equal to the emissions unit's potential to emit, as demonstrated below:

Use the AP-42, 10/96, Table 3.3-1 emission factor of 0.31 lb particulates/mmBtu of heat input.

d. Emission Limitation: 5% opacity, as a 6-minute average (diesel exhaust stack emissions)

Applicable Compliance Method: OAC rule 3745-17-03(B)(1)

e. Emission Limitation: 10% opacity from fugitive emissions, as a 3-minute average (front-end loader dumping onto feed conveyor covered specifically by OAC rule 3745-31-05(A)(3)).

Applicable Compliance Method: OAC rule 3745-17-03(B)(3)

f. Emission Limitation: 10% opacity from fugitive emissions (screening and material handling operations covered specifically by 40 CFR Part 60, Subpart OOO).

Applicable Compliance Method: Compliance shall be demonstrated using US EPA Method 9 of 40 CFR Part 60, Appendix A and the procedures in 40 CFR Part 60, Subpart OOO as specified in sections E.1 through E.5 above.

g. Emission Limitations: 14.74 lbs/hr & 64.57 tpy particulates (screening and conveying operations)

Applicable Compliance Method: The above emission limitations were established based upon the potential to emit as demonstrated in the equations below:

H = SP + CPT;
Y = H(8760 hrs/yr)(1 ton/2000 lbs);

Where,

H = 14.74 lbs/hr particulates [hourly potential to emit];
Y = 64.57 tpy particulates [yearly potential to emit];
P = 300 TPH [design production capacity]

S = 0.03150 lb particulates/ton production [AP-42, 1/95, Table 11.19.2-2 crushed stone processing operations emission factor for material screening];
C = 0.00294 lb particulates/ton production/material transfer point [AP-42, 1/95, Table 11.19.2-2 crushed stone processing operations emission factor for material conveying]; and
T = 6 material transfer points.

F. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-31-03(A)(1)(p), the permittee of the portable or mobile emissions unit identified within this Permit to Install (PTI) may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

   a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;

   b. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);

   c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Akron Regional Air Quality Management District (ARAQMD) within a minimum of thirty days prior to the scheduled relocation; and

   d. in the ARAQMD's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

2. As an alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

   a. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;

   b. the portable emissions unit is equipped with best available technology;

   c. the portable emissions unit owner has identified the proposed site to Ohio EPA;

   d. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;

e. a public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;

f. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and

g. the portable emissions unit owner has provided Ohio EPA with fifteen days written notice of the relocation.

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

4. In order for the ARAQMD to determine compliance with all of the above criteria, the permittee of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the ARAQMD, 146 South High Street, Suite 904, Akron, OH 44308. Upon receipt of the notice, the ARAQMD, or the ARAQMD authorized representative, 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 emissions unit may result in fines and civil penalties.

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, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
F002 - Associated Unpaved Roadways with F001 (Finlay 683 SuperTrak Portable Screening System)	OAC rule 3745-31-05(A)(3)	no visible particulate emissions except for 3 minutes during any 60-minute period 0.47 ton/year of particulates best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b through A.2.g) The requirements of this rule also include compliance with OAC rule 3745-17-07 and OAC rule 3745-17-08. The emissions limitations and control measure requirements specified by these rules are less stringent than the emissions limitations and control measure requirements established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07 (B)(5) OAC rule 3745-17-08 (B), (B)(2)	

2. Additional Terms and Conditions

2.a The permittee shall employ best available control measures on all roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the application, the permittee has committed to treat the roadways and parking areas with ample water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2.b 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 roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.

2.c 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 using appropriate dust control measures 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 a visible emission limitation of no visible particulate emissions except for one minute during any 60-minute period.

2.d The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.

2.e Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.

2.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 best available technology requirements of OAC rule 3745-31-05 (A)(3).

2.g The 0.47 ton/year particulates limitation was established (based on application data) for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

2.h The roadways and parking areas associated with a portable source are subject to the

requirements of OAC rule 3745-17-07(B) and 3745-17-08(B) when located in an "Appendix A" area as identified in OAC rule 3745-17-08.

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

roadways:

All Unpaved Roadways

parking areas:

All Unpaved Parking Areas

The size, quantity, and designation of the roadways and parking areas may change frequently depending on the current location of the portable facility.

B. Operational Restrictions

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

2. Waste or used oil shall not be used for controlling fugitive dust emissions from any roadways/parking areas at this facility.

C. Monitoring and/or Record keeping 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:

roadways/parking areas	minimum inspection frequency
all	daily

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

4. The permittee shall maintain records of the following information:

   a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;

b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;

c. the dates the control measures were implemented; and

d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

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

D. Reporting Requirements

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

   a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and

   b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

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

E. Testing Requirements

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

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

   a. <u>Emission Limitation</u>:

0.47 tpy particulates

Applicable Compliance Method:

Total Emissions = $\sum$ roadways

$E = (1 - \text{control efficiency})\ k(s/12)^a(W/3)^b(VMT/2000)$ AP-42 (10/01) Equation 13.2.2

Where:
k,a,b = empirical constants
W = Mean Vehicle Weight (tons) = 15.5
s = Silt content of road surface material = 7.93%
VMT = 4,000 miles/year

Control Efficiency: Used 95% for use of water and vehicle speed reduction.

F. Miscellaneous Requirements

None

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

A. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
F003 - Associated Material Storage Piles with F001 (Finlay 683 SuperTrak Portable Screening System) including load-in/load-out and wind erosion (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 2.05 tons/year of particulates best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b through A.2.f) The requirements of this rule also include compliance with OAC rule 3745-17-07 and OAC rule 3745-17-08.
	OAC rule 3745-17-07 (B)(6) OAC rule 3745-17-08 (B), (B)(6)	The emissions limitations and control measure requirements specified by these rules are less stringent than the emissions limitations and control measure requirements established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

2.a The material storage piles that are covered by this permit and subject to the requirements

of OAC rule 3745-31-05(A)(3) are listed below:

Main Product;
Side #1;

Side #2; and
Fines.

The size, quantity, and designation of the material storage piles may change frequently depending on the current location of the portable facility.

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 application, the permittee has committed to perform the following control measure(s) to ensure compliance:

storage pile operation	control measure(s)
load-in	low drop height of belt conveyor
load-out	low drop height of front-end loader; other equipment

The permittee shall maintain low storage pile heights and avoid dragging the front-end loader bucket along the ground. 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 application, the permittee has committed to maintain each storage pile height as low as possible 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 (A)(3).

2.g The 2.05 tons/year particulates limitation was established (based on application data) for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

2.h The material storage piles associated with a portable source are subject to the requirements of OAC rule 3745-17-07(B) and 3745-17-08(B) when located in an "Appendix A" area as identified in OAC rule 3745-17-08.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

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

storage pile identification	minimum load-in inspection frequency
all	daily

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

storage pile identification	minimum load-out inspection frequency
all	daily

3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces

associated with each storage pile in accordance with the following frequencies:

storage pile identification	minimum wind erosion inspection frequency
all	daily

4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient

for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.

6. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

7. The permittee shall maintain records of the following information:

   a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;

   b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;

   c. the dates the control measures were implemented; and

   d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

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

D. Reporting Requirements

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

   a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice

cover or precipitation; and

b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

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

E. Testing Requirements

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

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

a. Emission Limitation:

2.05 tpy particulates

Applicable Compliance Method:

Total Emissions = (1 - Control Efficiency) * ∑ Load-In/Load-Out + Wind Erosion

Load-In/Load-Out Emissions:

$E = k(0.0032)\ [(U/5)^{1.3} / (M/2)^{1.4}](W/2000)$ AP-42 (1/95) Equation 13.2.4

Where:
k = Particle Size Multiplier = 0.74 for particulate
U = Mean Wind Speed (mph) = 9.5 mph
M = Material Moisture Content = 1%
W = Weight of Material Processed (tpy) = 2,628,000 tpy

Wind Erosion Emissions:

$E = (1.7)(s/1.5)[(365 - p)/235](f/15)(365)(A/2000)$

"Control of Open Fugitive Dust Sources" USEPA (1988)

Where:
s = Silt Content of Stored Material (wt %) = 10%
p = # of days with >0.01 inch precipitation per year = 149
f = percentage of time wind speed exceeds 12 mph = 20%
A = Total Surface Area of Storage Piles = 1.25 acres
Control Efficiency: Used 95% for use of water and low drop heights.

F. Miscellaneous Requirements

None