



John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Craig W. Butler, Director

8/14/2015

Certified Mail

Chuck Perito  
ROSBY RESOURCE RECYCLING, INC.  
54 E SCHAAF RD  
Brooklyn Heights, OH 44131

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

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 1318118050  
Permit Number: P0117906  
Permit Type: Initial Installation  
County: Cuyahoga

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**

**How to appeal this permit**

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
77 South High Street, 17th Floor  
Columbus, OH 43215

## **How to save money, reduce pollution and reduce energy consumption**

The Ohio EPA is encouraging 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 Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: [www.ohioairquality.org/clean\\_air](http://www.ohioairquality.org/clean_air)

## **How to give us feedback on your permitting experience**

Please complete a survey at [www.epa.ohio.gov/survey.aspx](http://www.epa.ohio.gov/survey.aspx) and give us feedback on your permitting experience. We value your opinion.

## **How to get an electronic copy of your permit**

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc) by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

If you have any questions, please contact Cleveland Division of Air Quality at (216)664-2297 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Michael E. Hopkins, P.E.  
Assistant Chief, Permitting Section, DAPC

Cc: CDAQ



## Response to Comments

Facility ID:	1318118050
Facility Name:	ROSBY RESOURCE RECYCLING, INC.
Facility Description:	
Facility Address:	54 E SCHAAF RD Brooklyn Heights, OH 44131 Cuyahoga County
Permit:	P0117906, Permit-To-Install and Operate - Initial Installation
A public notice for the draft permit issuance was published in the Ohio EPA Weekly Review and appeared in the The Plain Dealer on 07/08/2015. The comment period ended on 08/07/2015.	
Hearing date (if held)	
Hearing Public Notice Date (if different from draft public notice)	

The following comments were received during the comment period specified. Ohio EPA reviewed and considered all comments received during the public comment period. By law, Ohio EPA has authority to consider specific issues related to protection of the environment and public health. Often, public concerns fall outside the scope of that authority. For example, concerns about zoning issues are addressed at the local level. Ohio EPA may respond to those concerns in this document by identifying another government agency with more direct authority over the issue.

In an effort to help you review this document, the questions are grouped by topic and organized in a consistent format. PDF copies of the original comments in the format submitted are available upon request.

**1. Topic: None**

- a. Comment: None
- b. Response: None

We did not receive any comments on the Draft permit that was issued on 7/2/2015 and we have not made any further changes to the permit recommendation.





**FINAL**

**Division of Air Pollution Control  
Permit-to-Install and Operate  
for  
ROSBY RESOURCE RECYCLING, INC.**

Facility ID:	1318118050
Permit Number:	P0117906
Permit Type:	Initial Installation
Issued:	8/14/2015
Effective:	8/14/2015
Expiration:	7/16/2018





**Division of Air Pollution Control**  
**Permit-to-Install and Operate**  
for  
ROSBY RESOURCE RECYCLING, INC.

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**Final Permit-to-Install and Operate**  
ROSBY RESOURCE RECYCLING, INC.  
**Permit Number:** P0117906  
**Facility ID:** 1318118050  
**Effective Date:** 8/14/2015

## Authorization

Facility ID: 1318118050  
Application Number(s): A0052057  
Permit Number: P0117906  
Permit Description: Initial PTIO for emissions unit F009 which is a Construction and Demolition Debris Landfill. The use of reasonably available control measures are used to control fugitive dust. Facility can accept non-regulated asbestos-containing material for disposal.  
Permit Type: Initial Installation  
Permit Fee: \$2,500.00  
Issue Date: 8/14/2015  
Effective Date: 8/14/2015  
Expiration Date: 7/16/2018  
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

ROSBY RESOURCE RECYCLING, INC.  
54 E SCHAAF RD  
Brooklyn Heights, OH 44131

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

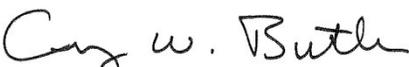
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Cleveland Division of Air Quality  
2nd Floor  
75 Erieview Plaza  
Cleveland, OH 44114  
(216)664-2297

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

  
Craig W. Butler  
Director



**Final Permit-to-Install and Operate**  
ROSBY RESOURCE RECYCLING, INC.  
**Permit Number:** P0117906  
**Facility ID:** 1318118050  
**Effective Date:** 8/14/2015

## Authorization (continued)

Permit Number: P0117906  
Permit Description: Initial PTIO for emissions unit F009 which is a Construction and Demolition Debris Landfill. The use of reasonably available control measures are used to control fugitive dust. Facility can accept non-regulated asbestos-containing material for disposal.

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

<b>Emissions Unit ID:</b>	<b>F009</b>
Company Equipment ID:	F009
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



**Final Permit-to-Install and Operate**  
ROSBY RESOURCE RECYCLING, INC.  
**Permit Number:** P0117906  
**Facility ID:** 1318118050  
**Effective Date:** 8/14/2015

## **A. Standard Terms and Conditions**

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

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

**2. Who is responsible for complying with this permit?**

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

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

**3. What records must I keep under this permit?**

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

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

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

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

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

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

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

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

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

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

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

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

**7. What reports must I submit under this permit?**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



**Final Permit-to-Install and Operate**  
ROSBY RESOURCE RECYCLING, INC.  
**Permit Number:** P0117906  
**Facility ID:** 1318118050  
**Effective Date:** 8/14/2015

## **B. Facility-Wide Terms and Conditions**



1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
  - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
    - (1) None.
  - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
    - (1) None.



**Final Permit-to-Install and Operate**  
ROSBY RESOURCE RECYCLING, INC.  
**Permit Number:** P0117906  
**Facility ID:** 1318118050  
**Effective Date:** 8/14/2015

## **C. Emissions Unit Terms and Conditions**

**1. F009, F009**

**Operations, Property and/or Equipment Description:**

Construction and Demolition Debris Landfill

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
  - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
    - a. None.
  - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
    - a. None.
- b) Applicable Emissions Limitations and/or Control Requirements
  - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	Fugitive particulate matter (PM) emissions shall not exceed 28.71 tons per year (TPY). See b)(2)a. below. Visible emissions of fugitive dust shall not exceed 10% opacity as a 3-minute average. No visible emissions of non-regulated asbestos-containing material that has become friable. See c)(7) below.
b.	OAC rule 3745-17-07(B)	The visible fugitive dust emission limitation specified by this rule is less stringent than the visible fugitive dust emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rule 3745-17-08(B)	See b)(2)b. through b)(2)e, and c)(1) through c)(4) below.
d.	OAC rule 3745-19	See b)(2)g. below.

(2) Additional Terms and Conditions

- a. The potential to emit for fugitive PM, as defined in OAC rule 3745-31-01, for this emissions unit is 28.71 TPY.
- b. All vehicles hauling construction and demolition debris (C & DD) materials shall be closed, covered or tarped when coming to or leaving the facility in order to minimize or eliminate visible emissions of fugitive dust and to eliminate load loss.
- c. The permittee shall ensure C & DD materials are deposited, spread and compacted in such a manner as to minimize or prevent visible emissions of fugitive dust.
- d. When dumping and inspecting C & DD materials in the unloading zone, the permittee shall implement the following procedures:
  - i. no dusty C & DD materials shall be dumped during periods of high wind speed, unless they have been treated to prevent them from becoming airborne;
  - ii. the permittee shall ensure that all truckloads of C & DD materials are unloaded in a manner which will minimize the drop height of the C & DD materials;
  - iii. any dusty C & DD materials to be staged prior to disposal, shall be watered, as necessary, or have a temporary soil cover;
  - iv. during the dumping of any load of C & DD materials, in which dusty C & DD materials become airborne, the C & DD materials shall be watered as necessary to minimize or eliminate visible emissions of fugitive dust; and
  - v. the permittee shall apply a cover to any temporarily stockpiled non-recyclable C & DD materials if they are not moved or sorted within one week.
- e. When handling C & DD materials and/or applying cover materials at the working face where the materials will be buried, the permittee shall implement the following procedures:

- i. all exposed C & DD materials shall be covered with cover materials on a weekly basis. When covered, the materials shall remain covered until work begins the next day of operation;
  - ii. the permittee shall ensure that C & DD materials are handled in a manner which will minimize the drop height of the C & DD materials and are dumped as near to the point of final placement as possible;
  - iii. the spreading, inspecting, and compacting of C & DD materials shall occur at the working face in a manner that will minimize the handling and moving of the materials to the extent possible;
  - iv. the permittee shall minimize the handling and the stockpiling of cover materials, except for top soil;
  - v. unvegetated cover materials and soil in the C & DD material disposal area must be periodically wetted with water in accordance with the inspections per d)(3) below and shall be handled in such a manner as to minimize or eliminate visible emissions of fugitive dust;
  - vi. the frequency and amounts of water applications will depend on weather conditions, cover material conditions, and soil conditions;
  - vii. a record of water applications required by these terms and conditions shall be maintained at the facility site for a period of not less than three years and shall be made available to the Director, or any authorized representative of the Director, for review during normal business hours; and
  - viii. deposition and burial operations of any suspected non-regulated Category I or Category II asbestos-containing material or demolition debris shall be conducted in a manner that prevents any asbestos-containing material from being broken up or dispersed before such materials are buried.
- f. Under Substitute Amended House Bill 397 (Sub. Am. H.B. 397), effective December 22, 2005, Ohio EPA is required to develop rules governing the operation of C&DD landfills. Sub. Am. H.B. 397 authorizes the Director of Ohio EPA to adopt rules requiring contingency plans for effective action in response to hydrogen sulfide or other gases created by the operation of a C&DD facility. Because these rules are not yet written, Ohio EPA has not placed terms and conditions detailing the contingency plan requirements in this permit. However, Ohio EPA believes it is important to have in place a contingency plan to deal with potential hydrogen sulfide/other gas emissions from C&DD facilities. Therefore, as a condition of this permit, the permittee is required to develop and implement a hydrogen sulfide/other gas emission contingency plan by the dates required for sources in the C&DD rules developed in response to Sub. Am. H.B. 397.
- g. There shall be no open burning, in violation of OAC Chapter 3745-19, at this facility.

h. Pursuant to the authority in ORC section 3704.03(L), any representative of the Director may, upon presentation of proper identification, enter at any reasonable time upon any portion of the property where this landfill is located, including any improvements thereon, to make inspections; take samples; conduct tests; examine records or reports pertaining to any emissions of air contaminants; and inspect monitoring equipment, emissions control equipment, and/or methods of operation and gas sampling. No operator or agent of this landfill shall act in any manner to refuse, hinder, or thwart this legal right of entry.

c) Operational Restrictions

- (1) The permittee shall ensure that C & DD materials are deposited, spread, and compacted in such a manner as to minimize or prevent visible emissions of fugitive dust. The permittee shall require all truckloads of C & DD materials to be unloaded in a manner that will minimize the drop height of the C & DD materials. Any dusty materials likely to become airborne shall be watered as necessary prior to or during dumping operations in order to minimize or eliminate visible emissions of fugitive dust. Watering shall be conducted in such a manner as to avoid the pooling of liquids and runoff. No dusty material shall be dumped during periods of high wind speed, unless the material has been treated to prevent fugitive dust emissions from becoming airborne.
- (2) The permittee shall employ reasonably available control measures for the above-identified landfill fugitive dust operations/sources for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permit application, the permittee maintains that the inherent moisture content of the materials involved in fugitive dust operations/sources is at a level which is more than sufficient to comply with all applicable requirements. If at any time the moisture content is not sufficient to meet the above applicable requirements, the permittee shall employ reasonably available control measures to ensure compliance.
- (3) 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 measures 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 fugitive dust operation/sources until further observation confirms that use of the control measure(s) is unnecessary.
- (4) Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08(B).
- (5) The facility cannot accept for disposal any regulated asbestos-containing material as defined in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Asbestos, 40 CFR Part 61, Subpart M, Section 141 and OAC rule 3745-20, or any subsequent revisions to either rule. Regulated asbestos-containing material is defined to include:
  - a. friable asbestos material;
  - b. Category I non-friable asbestos-containing material that has become friable;

- c. Category I non-friable asbestos-containing material that will be or has been subjected to sanding, grinding, cutting or abrading; and
  - d. Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by subpart M and OAC rule 3745-20.
- (6) Non-regulated asbestos-containing materials include asbestos containing building materials from single dwelling home demolitions having four or fewer units and are not part of a large scale project, Category I and II building materials (e.g., floor tile mastic, caulking and glazing compounds, etc.) determined to be in good condition or pliable, and building materials from demolition or renovation projects generating less than 160 linear feet, 260 square feet or 35 cubic feet of regulated asbestos-containing materials. The Category II asbestos containing materials cannot come from a regulated project.
- (7) The permittee shall be limited to accepting only non-regulated asbestos-containing materials. The permittee shall ensure that any non-regulated Category I and II nonfriable asbestos-containing materials accepted for disposal will not become friable during processing at the landfill; and asbestos-containing materials accepted for disposal do not become crumbled, pulverized, or reduced to powder by the forces expected to act on the material during its handling, transfer, and burial at the landfill. If any regulated asbestos-containing material arrives at the landfill it cannot be accepted for disposal; and if any non-regulated asbestos-containing becomes friable after it is accepted for disposal the permittee shall:
- a. not cause or permit visible emissions from the non-regulated Category I or II asbestos-containing materials during on-site transportation, transfer, deposition, or compacting operations;
  - b. assure that deposition and burial operations are conducted in a manner which prevents handling by equipment or persons that causes the non-regulated Category I or II asbestos-containing materials to be broken-up or dispersed before the materials are buried;
  - c. cover the non-regulated Category I or II asbestos-containing material with at least twelve inches of non-asbestos-containing material, as soon as practicable after deposition, but no later than at the end of the operating day; and
  - d. during the unloading, deposition, burial, and initial compaction of the non-regulated Category I or II asbestos-containing materials, assure that the disposal site is restricted adequately to deter unauthorized entry of the general public and any unauthorized personnel to within one hundred feet of the operations.
- (8) The permittee shall cover and compact asbestos-containing materials in accordance with the following requirements:
- a. As soon as practical after the placement, but no later than the end of each working day, the non-regulated Category I or II asbestos-containing material shall

be covered with at least 12 inches of non-asbestos-containing materials. Once the asbestos-containing materials are covered, the area shall be compacted.

- b. Care shall be taken to ensure that the disposed non-regulated Category I or II asbestos-containing materials are not re-excavated in subsequent operations. Any accidentally exposed material shall be immediately re-covered in accordance with the provisions of this permit.
- c. The non-regulated Category I or II asbestos-containing materials shall be separated from the landfill final grade by no less than 24 inches of compacted non-asbestos-containing materials; or by at least 6 inches of compacted non-asbestos-containing materials where a permanent cover of vegetation is established over the area; or in accordance with current requirements for closure, whichever is more stringent.

d) **Monitoring and/or Recordkeeping Requirements**

- (1) Record keeping of the process emissions is not required since the emissions unit is permitted at its potential to emit for fugitive PM.

The potential to emit for fugitive PM from this emissions unit was established based on the PTE calculation identified under f)(1)b below.

- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of non-regulated asbestos-containing materials that have become friable resulting from any landfill operations (such as C & DD material unloading, handling, covering, excavation, and wind erosion). The presence or absence of any visible emissions of non-regulated asbestos containing material that has become friable shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the total duration of any visible emission incident; and
  - b. any corrective actions taken to eliminate the visible emissions.

- (3) Except as otherwise provided in this section, the permittee shall perform daily inspections of each landfill operation. 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 operating conditions. No inspection shall be necessary for an 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 applicable requirements located in b)(2) above. 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.

- (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 d)(4)d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

- (5) The permittee shall maintain records of the total volume or weight of C&DD material received each day and each calendar year. If tracking by weight, the permittee shall operate and maintain a certified scale. These records shall be maintained for a period of not less than three years, and the records shall be available for review by the Director or his representative during normal business hours.

e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the Cleveland Division of Air Quality (Cleveland DAQ).
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Cleveland DAQ by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) The permittee shall identify the following information in the PER in accordance with the monitoring requirements for inspections in d) above:
  - 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;
  - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented;
  - c. the weight or volume of C & DD material deposited during the year;
  - d. identify all days during which any visible emissions of non-regulated asbestos-containing materials that became friable were observed from operations involving this emissions unit (such as C & DD material unloading, handling, covering, excavation and wind erosion); and
  - e. describe any corrective actions taken to eliminate the visible emissions.

f) Testing Requirements

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

a. Emission Limitation:

Fugitive PM shall not exceed 28.71 TPY.

Applicable Compliance Method:

The above limitation includes contributions of PM from all the following activities with the corresponding emission factor (EF) listed (Sources of emissions factors as well as applicable equations to use are referenced in parenthesis):

i. Excavating Activities:

EF = 0.004 pounds per ton of overburden removed (from Ohio EPA Reasonably Available Control Measures, "Area Stripping with Scraper", Table 2.1.4-3);

$$0.004 \text{ lb PM/ton} \times 135,000 \text{ tons/year} = 540 \text{ lb PM/yr}$$

$$540 \text{ lb PM /yr} / 3120 \text{ hr/yr} = 0.1731 \text{ lb PM /hr}$$

$$0.1731 \text{ lb PM /hr} * 8760 \text{ hr/yr} = 1516.36 \text{ lb PM /yr}$$

$$1516.15 \text{ lb PM/yr} * 1 \text{ ton}/2000\text{lb} = 0.76 \text{ TPY PM}$$

ii. Bottom Grading:

EF = 0.46 pounds per mile traveled ("Grading" AP-42, table 11.9-1); Bottom Grading- "Grading" AP-42, table 11.9-1

$$S = \text{mean vehicle speed (mph)} = 3$$

$$EF = 0.040 (S)^{2.5} = 0.62\text{lb/mi traveled}$$

$$0.62\text{lb/mi traveled} \times 1.97 \text{ miles traveled/year} \times 1 \text{ ton}/ 2000 \text{ lbs} = 6.1 \times 10^{-4} \text{TPY PM}$$

iii. Aggregate Placement:

EF = 0.001 pound per ton of material placed ("Particulate Emissions Generated by Drop Operations" AP-42, Table 13.2.4, Equation 1.);

$$E = k(0.0032) * [(U/5)^{1.3} / (M/2)^{1.4}]$$

where:

E = emission factor

k = particle size multiplier (dimensionless) = 0.74 for PM & 0.35 for PM<sub>10</sub>

U = mean wind speed, meters per second (m/s) (miles per hour [mph]) = 11mph

$M = \text{material moisture content (\%)} = 4.8 \%$

$0.002 \text{ lb PM/ton} * 6317.31 \text{ tons/yr} * 1\text{ton}/2000\text{lb} = 0.0063 \text{ TPY PM}$

iv. Sidewall Covering:

$EF = 0.012 \text{ pounds per ton of overburden replaced (AP-42, Table 11.9-4).}$

$0.012 \text{ lb/ton} * 2,700 \text{ tons/year} = 32.4 \text{ lb/yr PM}$

$32.4 \text{ lb/yr PM} / 3120 \text{ hr/yr} = 0.01038 \text{ lb/hr PM}$

$0.01038 \text{ lb/hr PM} * 8760 \text{ hr/yr} = 90.969 \text{ lb/yr PM}$

$90.969 \text{ lb/yr} * 1 \text{ ton}/2000\text{lb} = 0.046 \text{ TPY PM}$

v. Debris Placement:

$EF = 0.001 \text{ pound per ton of material placed ("Particulate Emissions Generated by Drop Operations" AP-42, Table 13.2.4, Equation 1);}$

$E = k(0.0032) * [(U/5)^{1.3} / (M/2)^{1.4}]$

where:

E = emission factor

k = particle size multiplier (dimensionless) = 0.74 for PM & 0.35 for PM<sub>10</sub>

U = mean wind speed, meters per second (m/s) (miles per hour [mph]) = 11mph

M = material moisture content (%) = 7 %

$0.001 \text{ lb PM/ton} * 245,720.81 \text{ tons/yr} * 1 \text{ ton}/2000\text{lb} = 0.12 \text{ TPY PM}$

vi. Debris Compaction:

$EF = 3.1 \text{ pound per hour (AP-42, Table 13.2.3-1, site Preparation, Bulldozing (references Table 11.9-1));}$

s = silt content = 5%

M= Moisture content = 7%

$3.1\text{lb/hr} * 8760 \text{ hours/year} * 1 \text{ ton}/2000\text{lb} = 13.58 \text{ TPY PM}$

vii. Weekly Cover:

$EF = 3.15 \text{ pound per hour (AP-42, Table 13.2.3-1, site Preparation, Bulldozing (references Table 11.9-1));}$

s = silt content = 9% RACM, Table 2.1.2-2

M= Moisture content = 12% AP-42, Table 13.2.4-1

$3.15\text{lb/hr} * 8760 \text{ hours/year} * 1 \text{ ton}/2000\text{lb} = 13.80 \text{ TPY PM}$



viii. Wind Erosion:

(AP-42 Table 11.9-4, Wind Erosion of Exposed Areas): EF = 0.39 ton of particulates per acre of exposed barren land per year;

$$0.38 \text{ tons per acre per year} \times 1 \text{ acre expose per year} = 0.38 \text{TPY PM}$$

ix. Final Cap Placement:

(AP-42, Table 11.9-4): EF = 0.002 pounds per ton of material placed;

$$0.002 \text{ lbs/ton} \times 4,500 \text{ tons/yr} = 9 \text{ lb/yr}$$

$$9 \text{ lb/yr} / 3120 \text{ hr/yr} = 0.0029 \text{ lb/hr}$$

$$0.0029 \text{ lb/hr} \times 8760 \text{ hr/yr} \times 1 \text{ ton}/2000\text{lb} = 0.013 \text{ TPY PM}$$

and

x. Topsoil Replacement/Seed:

(AP-42, Table 11.9-4): EF = 0.002 pounds per ton of material placed.

$$0.002 \text{ lbs/ton} \times 375 \text{ tons/yr} = 0.75 \text{ lb/yr}$$

$$0.75 \text{ lb/yr} / 3120 \text{ hr/yr} = 0.00024 \text{ lb/hr}$$

$$0.00024 \text{ lb/hr} \times 8760 \text{ hr/yr} \times 1\text{ton}/ 2000\text{lb} = 0.0011 \text{ TPY PM}$$

To determine annual total PM emissions from all activities, sum the annual particulate emissions from all the above material handling emissions equations.

b. Emission Limitation:

Visible emissions of fugitive dust shall not exceed 10% opacity as a 3-minute average.

Applicable Compliance Method:

If required, compliance shall be determined by visible emissions evaluations performed in accordance with USEPA Reference Method 9 as set forth in "Appendix A 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 paragraph (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03(B)(3).

c. Emission Limitation:

No visible emissions of non-regulated asbestos-containing material that has become friable.

Applicable Compliance Method:

If required, compliance with the visible emissions limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test



**Final Permit-to-Install and Operate**  
ROSBY RESOURCE RECYCLING, INC.  
**Permit Number:** P0117906  
**Facility ID:** 1318118050  
**Effective Date:** 8/14/2015

Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996.

g) Miscellaneous Requirements

- (1) This emissions unit was installed in 1991.
- (2) The actual annual operating hours of this emissions unit is 3,120 hours per year (10 hours/day \* 312 days/year) as identified by the permittee in PTIO application #A0052057.