

West Virginia Department of Environmental Protection  
Division of Air Quality

Jim Justice  
Governor

Austin Caperton  
Cabinet Secretary

# Permit to Operate



Pursuant to  
**Title V**  
of the Clean Air Act

*Issued to:*

**Lackawanna Transport Company**  
**dba Wetzel County Sanitary Landfill**  
New Martinsville, WV  
R30-10300034-2017

A handwritten signature in blue ink, appearing to read "William P. Durham", written over a horizontal line.

*William P. Durham*  
*Director*

*Issued: April 17, 2017 • Effective: May 1, 2017*  
*Expiration: April 17, 2022 • Renewal Application Due: October 17, 2021*

Permit Number: **R30-10300034-2017**  
Permittee: **Lackawanna Transport Company**  
Facility Name: **d/b/a Wetzel County Sanitary Landfill**  
Permittee Mailing Address: **Route 1, P. O. Box 156A, New Martinsville, WV 26155**

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*This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45CSR30 — Requirements for Operating Permits. The permittee identified at the above-referenced facility is authorized to operate the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.*

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Facility Location:	New Martinsville, Wetzel County, West Virginia
Telephone Number:	(304) 455-3800
Type of Business Entity:	Corporation
Facility Description:	The facility is a 238-acre municipal solid waste landfill, which began operation in the 1960's. The disposal area is 139 acres. The maximum monthly tonnage accepted is 9,999 tons/month. The landfill accepts municipal solid waste, asbestos, construction/demolition debris (CDD), and approved residual waste. There is also a biosolids composting facility at the landfill, which has been in operation since 2001.
SIC Codes:	4953
UTM Coordinates:	512.33 km Easting 4383.75 km Northing • Zone 17

Permit Writer: Robert Mullins

*Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.*

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*Issuance of this Title V Operating Permit does not supersede or invalidate any existing permits under 45CSR13, 14 or 19, although all applicable requirements from such permits governing the facility's operation and compliance have been incorporated into the Title V Operating Permit.*

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## 1.0 Emission Units and Active R13, R14, and R19 Permits

### 1.1 Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
<b>Landfill</b>					
CL1	01-CL1	Clouse Area-Closed & Capped	PRE-1999	607,580 ft <sup>3</sup>	01-F1
A1	01-A1	LAW-1	1993	249,500 ft <sup>3</sup>	01-F1
A2	01-A2	LAW-2	1996	207,750 ft <sup>3</sup>	01-F1
A3	01-A3	LAW-3	1999	297,560 ft <sup>3</sup>	01-F1
A4	01-A4	LAW-4	2009	258,550 ft <sup>3</sup>	01-F1
A5	01-A5	LAW-5	2009	285,800 ft <sup>3</sup>	01-F1
A6	01-A6	CELL 6	2013	225,516 ft <sup>3</sup>	01-F1
A7	01-A7	CELL 7	2015	141,610 ft <sup>3</sup>	
A8	01-A8	LAW-5A – Asbestos (Closed)	1999	25,000 ft <sup>3</sup>	01-F1
A9	01-A9	Future Area – CELL 7A & CELL 8	Future	2,151,820 ft <sup>3</sup>	
<b>Flare</b>					
F1	01-F1	Enclosed Flare Stack/Enclosed Heat Exchanger Burner	2003	1,200 scfm	None
<b>Others</b>					
C1	01-C1	Primary Clarifier	1997	11,000 gals	None
C2	01-C2	Secondary Clarifier	1997	11,000 gals	None
<b>Haul Roads</b>					
P1	01-P1	Paved Road	PRE-1999	1000 FT +/-	None
UP1	01-UP1	Unpaved Road	N/A	1 MILE +/-	None
<b>Crushing and Screening</b>					
<b>Transfer Points</b>					
TP1	TP1	Bulldozer pushing material into pile OS1	1990	200 TPH and 300,000 TPY	MDH
TP2	TP2	Front end loader loading hopper (B1)	1990	200 TPH and 300,000 TPY	MDH
TP3	TP3	Feed from hopper (B1) into crusher (C1)	1990	200 TPH and 300,000 TPY	MDH
TP4	TP4	Batch drop from crusher onto BC1	1990	200 TPH and 300,000 TPY	MDH
TP5	TP5	Batch drop from BC1 onto BC2	1990	200 TPH and 300,000 TPY	MDH
TP6	TP6	Batch drop from BC2 onto screener	1990	200 TPH and 300,000 TPY	MDH
TP7	TP7	Batch drop oversized material onto BC3	1990	200 TPH and 300,000 TPY	MDH
TP8	TP8	Batch drop midsized material onto BC4	1990	200 TPH and 300,000 TPY	MDH
TP9	TP9	Batch drop undersized material onto BC5	1990	200 TPH and 300,000 TPY	MDH
TP10	TP10	Batch drop oversized material onto OS2 from BC3	1990	200 TPH and 300,000 TPY	MDH

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
TP11	TP11	Batch drop midsized material onto OS3 from BC4	1990	200 TPH and 300,000 TPY	MDH
TP12	TP12	Batch drop undersized material onto OS4 from BC5	1990	200 TPH and 300,000 TPY	MDH
TP13	TP13	Front end loader loading screened material	1990	200 TPH and 300,000 TPY	MDH
<b>Screening Operations</b>					
SC1	6S	Screening	1990	200 TPH and 300,000 TPY	FE
<b>Crushing Operations</b>					
C1	3S	Crushing	1990	200 TPH and 300,000 TPY	FE
<b>Belt Conveyors</b>					
BC1	4S	Belt conveyor from crusher	1990	200 TPH and 300,000 TPY	N
BC2	5S	Belt conveyor to screener	1990	200 TPH and 300,000 TPY	N
BC3	7S	Oversized material belt conveyor to stockpile	1990	200 TPH and 300,000 TPY	N
BC4	8S	Midsized material belt conveyor to stockpile	1990	200 TPH and 300,000 TPY	N
BC5	9S	Undersized material belt conveyor to stockpile	1990	200 TPH and 300,000 TPY	N
<b>Open Stockpiles</b>					
OS1	1S	Unprocessed material stockpile	1990	10,890 Tons	MC
OS2	10S	Oversized material stockpile	1990	10,890 Tons	MC
OS3	11S	Midsized material stockpile	2000	10,890 Tons	MC
OS4	12S	Undersized material stockpile	2000	10,890 Tons	MC
<b>Miscellaneous</b>					
B1	2S	Feed hopper and bin	1990	200 TPH and 300,000 TPY	PE
VT	14S	Unpaved haul roads	1990		N
DG1	13S	Diesel engine to power crusher/screener operation	2000	533 hp	WT
<b>Composting Operations</b>					
1S	1E & 2E	Sludge receiving, mixing, and screening	2002	5,000 wet tons per month	PT Biofilter, 1C
2S	1E & 2E	Active composting	2002	5,000 wet tons per month	PT Biofilter, 1C
PT Biofilter	1E & 2E	Pretreatment biofilter	2002	6,900 sq. ft.	1C
1C	1E & 2E	Main biofilter	2002	72,000 sq. ft.	Not Applicable

Methods of Control: MDH – minimize drop height; FE – full enclosure; MC – inherent moisture content; PE – partial enclosure; WT – water truck; N – no controls

## 1.2. Active R13, R14, and R19 Permits

The underlying authority for any conditions from R13, R14, and/or R19 permits contained in this operating permit is cited using the original permit number (e.g. R13-1234). The current applicable version of such permit(s) is listed below.

Permit Number	Date of Issuance
R13-2463	May 15, 2002
R13-2476A	December 17, 2004
R13-2731	May 7, 2007

## 2.0 General Conditions

### 2.1 Definitions

- 2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.
- 2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.
- 2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.
- 2.1.4. Unless otherwise specified in a permit condition or underlying rule or regulation, all references to a "rolling yearly total" shall mean the sum of the monthly data, values or parameters being measured, monitored, or recorded, at any given time for the previous twelve (12) consecutive calendar months.

### 2.2 Acronyms

<b>CAAA</b>	Clean Air Act Amendments	<b>NSPS</b>	New Source Performance Standards
<b>CBI</b>	Confidential Business Information	<b>PM</b>	Particulate Matter
<b>CEM</b>	Continuous Emission Monitor	<b>PM<sub>10</sub></b>	Particulate Matter less than 10µm in diameter
<b>CES</b>	Certified Emission Statement	<b>pph</b>	Pounds per Hour
<b>C.F.R. or CFR</b>	Code of Federal Regulations	<b>ppm</b>	Parts per Million
<b>CO</b>	Carbon Monoxide	<b>PSD</b>	Prevention of Significant Deterioration
<b>C.S.R. or CSR</b>	Codes of State Rules	<b>psi</b>	Pounds per Square Inch
<b>DAQ</b>	Division of Air Quality	<b>SIC</b>	Standard Industrial Classification
<b>DEP</b>	Department of Environmental Protection	<b>SIP</b>	State Implementation Plan
<b>FOIA</b>	Freedom of Information Act	<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>HAP</b>	Hazardous Air Pollutant	<b>TAP</b>	Toxic Air Pollutant
<b>HON</b>	Hazardous Organic NESHAP	<b>TPY</b>	Tons per Year
<b>HP</b>	Horsepower	<b>TRS</b>	Total Reduced Sulfur
<b>lbs/hr or lb/hr</b>	Pounds per Hour	<b>TSP</b>	Total Suspended Particulate
<b>LDAR</b>	Leak Detection and Repair	<b>USEPA</b>	United States Environmental Protection Agency
<b>m</b>	Thousand	<b>UTM</b>	Universal Transverse Mercator
<b>MACT</b>	Maximum Achievable Control Technology	<b>VEE</b>	Visual Emissions Evaluation
<b>mm</b>	Million	<b>VOC</b>	Volatile Organic Compounds
<b>mmBtu/hr</b>	Million British Thermal Units per Hour		
<b>mmft<sup>3</sup>/hr or mmcf/hr</b>	Million Cubic Feet Burned per Hour		
<b>NA or N/A</b>	Not Applicable		
<b>NAAQS</b>	National Ambient Air Quality Standards		
<b>NESHAPS</b>	National Emissions Standards for Hazardous Air Pollutants		
<b>NO<sub>x</sub></b>	Nitrogen Oxides		

### **2.3. Permit Expiration and Renewal**

- 2.3.1. Permit duration. This permit is issued for a fixed term of five (5) years and shall expire on the date specified on the cover of this permit, except as provided in 45CSR§30-6.3.b. and 45CSR§30-6.3.c.  
**[45CSR§30-5.1.b.]**
- 2.3.2. A permit renewal application is timely if it is submitted at least six (6) months prior to the date of permit expiration.  
**[45CSR§30-4.1.a.3.]**
- 2.3.3. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with 45CSR§30-6.2. and 45CSR§30-4.1.a.3.  
**[45CSR§30-6.3.b.]**
- 2.3.4. If the Secretary fails to take final action to deny or approve a timely and complete permit application before the end of the term of the previous permit, the permit shall not expire until the renewal permit has been issued or denied, and any permit shield granted for the permit shall continue in effect during that time.  
**[45CSR§30-6.3.c.]**

### **2.4. Permit Actions**

- 2.4.1. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.  
**[45CSR§30-5.1.f.3.]**

### **2.5. Reopening for Cause**

- 2.5.1. This permit shall be reopened and revised under any of the following circumstances:
- a. Additional applicable requirements under the Clean Air Act or the Secretary's legislative rules become applicable to a major source with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 45CSR§§30-6.6.a.1.A. or B.
  - b. Additional requirements (including excess emissions requirements) become applicable to an affected source under Title IV of the Clean Air Act (Acid Deposition Control) or other legislative rules of the Secretary. Upon approval by U.S. EPA, excess emissions offset plans shall be incorporated into the permit.
  - c. The Secretary or U.S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
  - d. The Secretary or U.S. EPA determines that the permit must be revised or revoked and reissued to assure compliance with the applicable requirements.

**[45CSR§30-6.6.a.]**

## **2.6. Administrative Permit Amendments**

- 2.6.1. The permittee may request an administrative permit amendment as defined in and according to the procedures specified in 45CSR§30-6.4.  
**[45CSR§30-6.4.]**

## **2.7. Minor Permit Modifications**

- 2.7.1. The permittee may request a minor permit modification as defined in and according to the procedures specified in 45CSR§30-6.5.a.  
**[45CSR§30-6.5.a.]**

## **2.8. Significant Permit Modification**

- 2.8.1. The permittee may request a significant permit modification, in accordance with 45CSR§30-6.5.b., for permit modifications that do not qualify for minor permit modifications or as administrative amendments.  
**[45CSR§30-6.5.b.]**

## **2.9. Emissions Trading**

- 2.9.1. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit and that are in accordance with all applicable requirements.  
**[45CSR§30-5.1.h.]**

## **2.10. Off-Permit Changes**

- 2.10.1. Except as provided below, a facility may make any change in its operations or emissions that is not addressed nor prohibited in its permit and which is not considered to be construction nor modification under any rule promulgated by the Secretary without obtaining an amendment or modification of its permit. Such changes shall be subject to the following requirements and restrictions:
- a. The change must meet all applicable requirements and may not violate any existing permit term or condition.
  - b. The permittee must provide a written notice of the change to the Secretary and to U.S. EPA within two (2) business days following the date of the change. Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.
  - c. The change shall not qualify for the permit shield.
  - d. The permittee shall keep records describing all changes made at the source that result in emissions of regulated air pollutants, but not otherwise regulated under the permit, and the emissions resulting from those changes.
  - e. No permittee may make any change subject to any requirement under Title IV of the Clean Air Act (Acid Deposition Control) pursuant to the provisions of 45CSR§30-5.9.

- f. No permittee may make any changes which would require preconstruction review under any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) pursuant to the provisions of 45CSR§30-5.9.

**[45CSR§30-5.9.]**

## **2.11. Operational Flexibility**

- 2.11.1. The permittee may make changes within the facility as provided by § 502(b)(10) of the Clean Air Act. Such operational flexibility shall be provided in the permit in conformance with the permit application and applicable requirements. No such changes shall be a modification under any rule or any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) promulgated by the Secretary in accordance with Title I of the Clean Air Act and the change shall not result in a level of emissions exceeding the emissions allowable under the permit.

**[45CSR§30-5.8]**

- 2.11.2. Before making a change under 45CSR§30-5.8., the permittee shall provide advance written notice to the Secretary and to U.S. EPA, describing the change to be made, the date on which the change will occur, any changes in emissions, and any permit terms and conditions that are affected. The permittee shall thereafter maintain a copy of the notice with the permit, and the Secretary shall place a copy with the permit in the public file. The written notice shall be provided to the Secretary and U.S. EPA at least seven (7) days prior to the date that the change is to be made, except that this period may be shortened or eliminated as necessary for a change that must be implemented more quickly to address unanticipated conditions posing a significant health, safety, or environmental hazard. If less than seven (7) days notice is provided because of a need to respond more quickly to such unanticipated conditions, the permittee shall provide notice to the Secretary and U.S. EPA as soon as possible after learning of the need to make the change.

**[45CSR§30-5.8.a.]**

- 2.11.3. The permit shield shall not apply to changes made under 45CSR§30-5.8., except those provided for in 45CSR§30-5.8.d. However, the protection of the permit shield will continue to apply to operations and emissions that are not affected by the change, provided that the permittee complies with the terms and conditions of the permit applicable to such operations and emissions. The permit shield may be reinstated for emissions and operations affected by the change:

- a. If subsequent changes cause the facility's operations and emissions to revert to those authorized in the permit and the permittee resumes compliance with the terms and conditions of the permit, or
- b. If the permittee obtains final approval of a significant modification to the permit to incorporate the change in the permit.

**[45CSR§30-5.8.c.]**

- 2.11.4. "Section 502(b)(10) changes" are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.

**[45CSR§30-2.39]**

## **2.12. Reasonably Anticipated Operating Scenarios**

- 2.12.1. The following are terms and conditions for reasonably anticipated operating scenarios identified in this permit.
- a. Contemporaneously with making a change from one operating scenario to another, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating and to document the change in reports submitted pursuant to the terms of this permit and 45CSR30.
  - b. The permit shield shall extend to all terms and conditions under each such operating scenario; and
  - c. The terms and conditions of each such alternative scenario shall meet all applicable requirements and the requirements of 45CSR30.

**[45CSR§30-5.1.i.]**

## **2.13. Duty to Comply**

- 2.13.1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

**[45CSR§30-5.1.f.1.]**

## **2.14. Inspection and Entry**

- 2.14.1. The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:
- a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
  - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  - c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
  - d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

**[45CSR§30-5.3.b.]**

## **2.15. Schedule of Compliance**

- 2.15.1. For sources subject to a compliance schedule, certified progress reports shall be submitted consistent with the applicable schedule of compliance set forth in this permit and 45CSR§30-4.3.h., but at least every six (6) months, and no greater than once a month, and shall include the following:
- a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and
  - b. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measure adopted.

**[45CSR§30-5.3.d.]**

## **2.16. Need to Halt or Reduce Activity not a Defense**

- 2.16.1. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

**[45CSR§30-5.1.f.2.]**

## **2.17. Emergency**

- 2.17.1. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

**[45CSR§30-5.7.a.]**

- 2.17.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of 45CSR§30-5.7.c. are met.

**[45CSR§30-5.7.b.]**

- 2.17.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The permitted facility was at the time being properly operated;
- c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

- d. Subject to the requirements of 45CSR§30-5.1.c.3.C.1, the permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice, report, and variance request fulfills the requirement of 45CSR§30-5.1.c.3.B. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

[45CSR§30-5.7.c.]

- 2.17.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

[45CSR§30-5.7.d.]

- 2.17.5. This provision is in addition to any emergency or upset provision contained in any applicable requirement.

[45CSR§30-5.7.e.]

## **2.18. Federally-Enforceable Requirements**

- 2.18.1. All terms and conditions in this permit, including any provisions designed to limit a source's potential to emit and excepting those provisions that are specifically designated in the permit as "State-enforceable only", are enforceable by the Secretary, USEPA, and citizens under the Clean Air Act.

[45CSR§30-5.2.a.]

- 2.18.2. Those provisions specifically designated in the permit as "State-enforceable only" shall become "Federally-enforceable" requirements upon SIP approval by the USEPA.

## **2.19. Duty to Provide Information**

- 2.19.1. The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records required to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

[45CSR§30-5.1.f.5.]

## **2.20. Duty to Supplement and Correct Information**

- 2.20.1. Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

[45CSR§30-4.2.]

## **2.21. Permit Shield**

- 2.21.1. Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance provided that such applicable requirements are included and are specifically identified in this permit or the Secretary has determined that other requirements specifically identified are not applicable to the source and this permit includes such a determination or a concise summary thereof.

[45CSR§30-5.6.a.]

2.21.2. Nothing in this permit shall alter or affect the following:

- a. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance; or
- b. The applicable requirements of the Code of West Virginia and Title IV of the Clean Air Act (Acid Deposition Control), consistent with § 408 (a) of the Clean Air Act.
- c. The authority of the Administrator of U.S. EPA to require information under § 114 of the Clean Air Act or to issue emergency orders under § 303 of the Clean Air Act.

[45CSR§30-5.6.c.]

## **2.22. Credible Evidence**

2.22.1. Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee including but not limited to any challenge to the credible evidence rule in the context of any future proceeding.

[45CSR§30-5.3.e.3.B. and 45CSR38]

## **2.23. Severability**

2.23.1. The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstance is held invalid by a court of competent jurisdiction, the remaining permit terms and conditions or their application to other circumstances shall remain in full force and effect.

[45CSR§30-5.1.e.]

## **2.24. Property Rights**

2.24.1. This permit does not convey any property rights of any sort or any exclusive privilege.

[45CSR§30-5.1.f.4]

## **2.25. Acid Deposition Control**

2.25.1. Emissions shall not exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act (Acid Deposition Control) or rules of the Secretary promulgated thereunder.

- a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid deposition control program, provided that such increases do not require a permit revision under any other applicable requirement.
- b. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement.
- c. Any such allowance shall be accounted for according to the procedures established in rules promulgated under Title IV of the Clean Air Act.

[45CSR§30-5.1.d.]

- 2.25.2. Where applicable requirements of the Clean Air Act are more stringent than any applicable requirement of regulations promulgated under Title IV of the Clean Air Act (Acid Deposition Control), both provisions shall be incorporated into the permit and shall be enforceable by the Secretary and U. S. EPA.  
**[45CSR§30-5.1.a.2.]**

### 3.0 Facility-Wide Requirements

#### 3.1 Limitations and Standards

- 3.1.1. **Open burning.** The open burning of refuse by any person is prohibited except as noted in 45CSR§6-3.1. [45CSR§6-3.1.]
- 3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause or allow any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible. [45CSR§6-3.2.]
- 3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them. [40 C.F.R. §61.145(b) and 45CSR34]
- 3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public. [45CSR§4-3.1 State-Enforceable only.]
- 3.1.5. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11. [45CSR§11-5.2]
- 3.1.6. **Emission inventory.** The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality. [W.Va. Code § 22-5-4(a)(14)]
- 3.1.7. **Ozone-depleting substances.** For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 C.F.R. §§ 82.154 and 82.156.
  - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.

- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161.

**[40 C.F.R. 82, Subpart F]**

- 3.1.8. **Risk Management Plan.** Should this stationary source, as defined in 40 C.F.R. § 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 C.F.R. § 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 C.F.R. Part 70 or 71.

**[40 C.F.R. 68]**

- 3.1.9. No person shall cause, suffer, allow or permit fugitive particulate matter to be discharged beyond the boundary lines of the property on which the discharge originates or at any public or residential location, which causes or contributes to statutory air pollution.

**[45CSR§17-3.1.; State-Enforceable Only]**

- 3.1.10. If the Permittee is found to have been in violation of rule 45CSR17, they shall submit a control program upon the request of the Secretary. The Secretary may require the permittee to utilize a system to minimize fugitive particulate matter that may include, but is not limited to, the following:

- a. Use, where practicable, of water or chemicals for control of particulate matter in demolition of existing buildings or structures, construction operations, grading of roads or the clearing of land;
- b. Application of asphalt, water or suitable chemicals on unpaved roads, material stockpiles and other surfaces which can create airborne particulate matter;
- c. Covering of material transport vehicles, or treatment of cargo, to prevent contents from dripping, sifting, leaking or otherwise escaping and becoming airborne, and prompt removal of tracked material from roads or streets.

**[45CSR§§17-3.2. & 4.1., State-Enforceable only.]**

### **3.2. Monitoring Requirements**

- 3.2.1. None.

### **3.3. Testing Requirements**

- 3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63, if applicable, in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable.
- b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit.
- c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.
- d. The permittee shall submit a report of the results of the stack test within 60 days of completion of the test. The test report shall provide the information necessary to document the objectives of the test and to determine whether proper procedures were used to accomplish these objectives. The report shall include the following: the certification described in paragraph 3.5.1; a statement of compliance status, also signed by a responsible official; and, a summary of conditions which form the basis for the compliance status evaluation. The summary of conditions shall include the following:
  1. The permit or rule evaluated, with the citation number and language.
  2. The result of the test for each permit or rule condition.
  3. A statement of compliance or non-compliance with each permit or rule condition.

[WV Code §§ 22-5-4(a)(14-15) and 45CSR13]

### **3.4. Recordkeeping Requirements**

- 3.4.1. **Monitoring information.** The permittee shall keep records of monitoring information that include the following:
  - a. The date, place as defined in this permit and time of sampling or measurements;
  - b. The date(s) analyses were performed;
  - c. The company or entity that performed the analyses;
  - d. The analytical techniques or methods used;
  - e. The results of the analyses; and

f. The operating conditions existing at the time of sampling or measurement.

**[45CSR§30-5.1.c.2.A. and 45CSR13, R13-2731, 4.4.1.]**

3.4.2. **Retention of records.** The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Where appropriate, records may be maintained in computerized form in lieu of the above records.

**[45CSR§30-5.1.c.2.B.]**

3.4.3. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.

**[45CSR§30-5.1.c. State-Enforceable only.]**

### **3.5. Reporting Requirements**

3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

**[45CSR§§30-4.4. and 5.1.c.3.D.]**

3.5.2. A permittee may request confidential treatment for the submission of reporting required under 45CSR§30-5.1.c.3. pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.

**[45CSR§30-5.1.c.3.E.]**

3.5.3. Except for the electronic submittal of the annual certification to the USEPA as required in 3.5.5 below, all notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, mailed first class or by private carrier with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

#### **If to the DAQ:**

Director  
WVDEP  
Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
  
Phone: 304/926-0475  
FAX: 304/926-0478

#### **If to the US EPA:**

Associate Director  
Office of Air Enforcement and Compliance  
Assistance (3AP20)  
U. S. Environmental Protection Agency  
Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

- 3.5.4. **Certified emissions statement.** The permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality.  
[45CSR§30-8.]
- 3.5.5. **Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31. The annual certification to the USEPA shall be submitted in electronic format only. It shall be submitted by e-mail to the following address: [R3\\_APD\\_Permits@epa.gov](mailto:R3_APD_Permits@epa.gov). The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification.  
[45CSR§30-5.3.e.]
- 3.5.6. **Semi-annual monitoring reports.** The permittee shall submit reports of any required monitoring on or before September 15 for the reporting period January 1 to June 30 and on or before March 15 for the reporting period July 1 to December 31. All instances of deviation from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 45CSR§30-4.4.  
[45CSR§30-5.1.c.3.A.]
- 3.5.7. **Emergencies.** For reporting emergency situations, refer to Section 2.17 of this permit.
- 3.5.8. **Deviations.**
- a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:
1. Any deviation resulting from an emergency or upset condition, as defined in 45CSR§30-5.7., shall be reported by telephone or telefax within one (1) working day of the date on which the permittee becomes aware of the deviation, if the permittee desires to assert the affirmative defense in accordance with 45CSR§30-5.7. A written report of such deviation, which shall include the probable cause of such deviations, and any corrective actions or preventative measures taken, shall be submitted and certified by a responsible official within ten (10) days of the deviation.
  2. Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Secretary immediately by telephone or telefax. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.
  3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.
  4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.

[45CSR§30-5.1.c.3.C.]

- b. The permittee shall, in the reporting of deviations from permit requirements, including those attributable to upset conditions as defined in this permit, report the probable cause of such deviations and any corrective actions or preventive measures taken in accordance with any rules of the Secretary.

[45CSR§30-5.1.c.3.B.]

- 3.5.9. **New applicable requirements.** If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement.

[45CSR§30-4.3.h.1.B.]

### **3.6. Compliance Plan**

- 3.6.1. None.

### **3.7. Permit Shield**

- 3.7.1. The permittee is hereby granted a permit shield in accordance with 45CSR§30-5.6. The permit shield applies provided the permittee operates in accordance with the information contained within this permit.

- 3.7.2. The following requirements specifically identified are not applicable to the source based on the determinations set forth below. The permit shield shall apply to the following requirements provided the conditions of the determinations are met.

- a. 40 C.F.R. §60.757(a)(3) - The design capacity of this facility is greater than 2.5 million megagrams and 2.5 million cubic meters. Therefore, amended design capacity reports are not required.
- b. 40 C.F.R. 60 Subpart XXX - Standards of Performance for Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014. This subpart does not apply to the facility since it has not been constructed, reconstructed or modified after July 17, 2014.
- c. 40 C.F.R. Part 64 - This is the third permit renewal for this facility. The facility was found not to be subject to CAM at the time of the first renewal since the facility did not have any pollutant specific emissions units (PSEU) that satisfied all of the applicability criteria requirements of 40 CFR § 64.2 (a). and there have been no changes at the facility that have triggered CAM applicability since.

#### **4.0 Landfill and Primary and Secondary Clarifiers [emission point ID(s): (01-CL1, 01-A1 through 01-A9, 01-C1, 01-C2)]**

##### **4.1. Limitations and Standards**

4.1.1. Each owner or operator of an MSW landfill having a design capacity equal to or greater than 2.5 million megagrams and 2.5 million cubic meters, shall either comply with 40 C.F.R. §60.752(b)(2) or calculate an NMOC emission rate for the landfill using the procedures specified in 40 C.F.R. §60.754. The NMOC emission rate shall be recalculated annually, except as provided in 40 C.F.R. §60.757(b)(1)(ii). The owner or operator of an MSW landfill subject to 40 C.F.R. Part 60 Subpart WWW with a design capacity greater than or equal to 2.5 million megagrams and 2.5 million cubic meters is subject to part 70 or 71 permitting requirements.

**[45CSR23, 40 C.F.R. §60.752(b)]**

4.1.2. If the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, the owner or operator shall install a collection and control system that captures the gas generated within the landfill as required by Section 4.1.2 [40 C.F.R. §60.752(b)(2)(ii)(A)] and Section 5.1.10 [40 C.F.R. §60.752(b)(2)(iii)] within 30 months after the first annual report in which the emission rate equals or exceeds 50 megagrams per year of NMOC, unless Tier 2 or Tier 3 sampling demonstrates that the emission rate is less than 50 megagrams per year, as specified in 40 C.F.R. §§60.757(c)(1) or (2).

An active collection system shall:

- a. Be designed to handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control or treatment system equipment;
- b. Collects gas from each area, cell or group of cells in which initial solid waste has been in place for a period of:
  - i. 5 years or more if active; or
  - ii. 2 years or more if closed or at final grade;
- c. Collects gas at a sufficient extraction rate;
- d. Is designed to minimize off-site migration of subsurface gas;

**[45CSR23, 40 C.F.R. §§60.752(b)(2)(ii) and (2)(ii)(A)]**

4.1.3. The permittee shall operate the collection system with negative pressure at each wellhead except under the following:

- a. A fire or increased well temperature. The owner or operator shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual reports as provided in Section 4.5.2.a [40 C.F.R. §60.757(f)(1)];
- b. A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes shall be approved by the Administrator;

**[45CSR23, 40 C.F.R. §§60.753(b)(1) and (3)]**

- 4.1.4. The permittee shall operate each interior wellhead in the collection system with a landfill gas temperature less than 55°C and with either nitrogen level less than 20 percent or an oxygen level less than 5 percent. The owner or operator may establish higher value if they show supporting data that the elevated parameter does not cause fires or significantly inhibit anaerobic decomposition by killing methanogens.
- a. The nitrogen level shall be determined using Method 3C, unless an alternative test method is established as allowed by 40 C.F.R. §60.752(b)(2)(i).
  - b. Unless an alternative test method is established as allowed by 40 C.F.R. §60.752(b)(2)(i), the oxygen shall be determined by an oxygen meter using Method 3A or 3C except that:
    - i. The span shall be set so that the regulatory limit is between 20 and 50 percent of the span;
    - ii. A data recorder is not required;
    - iii. Only two calibration gases are required, a zero and span, and ambient air may be used as the span;
    - iv. A calibration error check is not required;
    - v. The allowable sample bias, zero drift, and calibration drift are  $\pm 10$  percent.

**[45CSR23, 40 C.F.R. §60.753(c)]**

- 4.1.5. The permittee shall operate the collection system so that the methane concentration is less than 500 parts per million above background at the surface of the landfill. To determine if this level is exceeded, the owner or operator shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. The owner or operator may establish an alternative traversing pattern that ensures equivalent coverage. A surface monitoring design plan shall be developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30 meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing.

**[45CSR23, 40 C.F.R. §60.753(d)]**

- 4.1.6. The permittee shall operate the system such that all collected gases are vented to a control system designed and operated in compliance with Section 5.1.10 [40 C.F.R. § 60.752(b)(2)(iii)]. In the event the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within 1 hour.

**[45CSR23, 40 C.F.R. §60.753(e)]**

- 4.1.7. The permittee shall operate the control or treatment system at all times when the collected gas is routed to the system.

**[45CSR23, 40 C.F.R. §60.753(f)]**

- 4.1.8. For purposes of compliance with 40 C.F.R. §60.753(a), each owner or operator of a controlled landfill shall place each well or design component as specified in the approved design plan as provided in 40 C.F.R. §60.752(b)(2)(i). Each well shall be installed no later than 60 days after the date on which the initial solid waste has been in place for a period of:

- a. 5 years or more if active; or

- b. 2 years or more if closed or at final grade.

**[45CSR23, 40 C.F.R. §60.755(b)]**

4.1.9. See Sections 5.1.16 and 5.1.17 for landfill collection system design plan.

4.1.10. Each owner or operator of an active waste disposal site that receives asbestos-containing waste material from a source covered under 40 C.F.R. §§61.149, 61.150, or 61.155 shall meet the requirements of 40 C.F.R. § 61.154 as follows.

- a. Either there must be no visible emissions to the outside air from any active waste disposal site where asbestos-containing waste material has been deposited, or the requirements of 40 C.F.R. §61.154(c) or (d) must be met.

- b. Unless a natural barrier adequately deters access by the general public, either warning signs and fencing must be installed and maintained as follows, or the requirements of 40 C.F.R. §61.154(c)(1) must be met.

- i. Warning signs must be displayed at all entrances and at intervals of 100 m (330 ft) or less along the property line of the site or along the perimeter of the sections of the site where asbestos-containing waste material is deposited. The warning signs must:

- 1. Be posted in such a manner and location that a person can easily read the legend; and
    - 2. Conform to the requirements of 51 cm x 36 cm (20" x 14") upright format signs specified in 29 C.F.R. 1910.145(d)(4) and 40 C.F.R. §61.154(b); and
    - 3. Display the following legend in the lower panel with letter sizes and styles of a visibility at least equal to those specified in 40 C.F.R. §61.154(b).

Legend	Notation
Asbestos Waste Disposal Site	2.5 cm (1 inch) Sans Serif, Gothic or Block
Do Not Create Dust	1.9 cm (3/4 inch) Sans Serif, Gothic or Block
Breathing Asbestos is Hazardous to Your Health	14 Point Gothic

Spacing between any two lines must be at least equal to the height of the upper of the two lines.

- ii. The perimeter of the disposal site must be fenced in a manner adequate to deter access by the general public.

- iii. Upon request and supply of appropriate information, the Administrator will determine whether a fence or a natural barrier adequately deters access by the general public.

- c. Rather than meet the no visible emission requirement of 40 C.F.R. §61.154(a), at the end of each operating day, or at least every 24-hour period while the site is in continuous operation, the asbestos-containing waste material that has been deposited at the site during the operating day or previous 24-hour period shall:

- i. Be covered with at least 15 centimeters (6 inches) of compacted nonasbestos-containing material, or
  - ii. Be covered with a resinous or petroleum-based dust suppression agent that effectively binds dust and controls wind erosion. Such an agent shall be used in the manner and frequency recommended for the particular dust by the dust suppression agent manufacturer to achieve and maintain dust control. Other equally effective dust suppression agents may be used upon prior approval by the Administrator. For purposes of 40 C.F.R. §61.154(c), any used, spent, or other waste oil is not considered a dust suppression agent.
- d. Rather than meet the no visible emission requirement of 40 C.F.R. §61.154(a), use an alternative emissions control method that has received prior written approval by the Administrator according to the procedures described in 40 C.F.R. §61.149(c)(2).
- e. For all asbestos-containing waste material received, the owner or operator of the active waste disposal site shall:
- i. Maintain waste shipment records, using a form similar to that shown in Figure 4 of 40 C.F.R. §61.149, and include the following information:
    1. The name, address, and telephone number of the waste generator.
    2. The name, address, and telephone number of the transporter(s).
    3. The quantity of the asbestos-containing waste material in cubic meters (cubic yards).
    4. The presence of improperly enclosed or uncovered waste, or any asbestos-containing waste material not sealed in leak-tight containers. Report in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and, if different, the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the disposal site, by the following working day, the presence of a significant amount of improperly enclosed or uncovered waste. Submit a copy of the waste shipment record along with the report.
    5. The date of the receipt.
  - ii. As soon as possible and no longer than 30 days after receipt of the waste, send a copy of the signed waste shipment record to the waste generator.
  - iii. Upon discovering a discrepancy between the quantity of waste designated on the waste shipment records and the quantity actually received, attempt to reconcile the discrepancy with the waste generator. If the discrepancy is not resolved within 15 days after receiving the waste, immediately report in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and, if different, the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the disposal site. Describe the discrepancy and attempts to reconcile it, and submit a copy of the waste shipment record along with the report.
  - iv. Retain a copy of all records and reports required by 40 C.F.R. §61.154(e) for at least 2 years.

- f. Maintain, until closure, records of the location, depth and area, and quantity in cubic meters (cubic yards) of asbestos-containing waste material within the disposal site on a map or diagram of the disposal area.
- g. Upon closure, comply with all the provisions of §61.151.
- h. Submit to the Administrator, upon closure of the facility, a copy of records of asbestos waste disposal locations and quantities.
- i. Furnish upon request, and make available during normal business hours for inspection by the Administrator, all records required under this section.
- j. Notify the Administrator in writing at least 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited at a waste disposal site and is covered. If the excavation will begin on a date other than the one contained in the original notice, notice of the new start date must be provided to the Administrator at least 10 working days before excavation begins and in no event shall excavation begin earlier than the date specified in the original notification. Include the following information in the notice:
  - i. Scheduled starting and completion dates.
  - ii. Reason for disturbing the waste.
  - iii. Procedures to be used to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material. If deemed necessary, the Administrator may require changes in the emission control procedures to be used.
  - iv. Location of any temporary storage site and the final disposal site.

[45CSR34, 40 C.F.R. §61.154, A8]

## 4.2. Monitoring Requirements

- 4.2.1. The following methods shall be used to determine whether the gas collection system is in compliance with §60.752(b)(2)(ii).
  - a. For the purpose of demonstrating whether the gas collection system flow rate is sufficient to determine compliance with Section 4.1.2.c [40 C.F.R. § 60.752(b)(2)(ii)(A)(3)], the owner or operator shall measure gauge pressure in the gas collection header at each individual well, monthly. If a positive pressure exists, action shall be initiated to correct the exceedance within 5 calendar days, except for the three conditions allowed under 40 C.F.R. §60.753(b). If negative pressure cannot be achieved without excess air infiltration within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial measurement of positive pressure. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. An alternative timeline for correcting the exceedance may be submitted to the Administrator for approval.
  - b. Owners or operators are not required to expand the system as required in Section 4.2.1.a [40 C.F.R. §60.755(a)(3)] during the first 180 days after gas collection system startup.
  - c. For the purpose of identifying whether excess air infiltration into the landfill is occurring, the owner or operator shall monitor each well monthly for temperature and nitrogen or oxygen as provided in

Section 4.1.4 [40 C.F.R. §60.753(c)]. If a well exceeds one of these operating parameters, action shall be initiated to correct the exceedance within 5 calendar days. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial exceedance. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. An alternative timeline for correcting the exceedance may be submitted to the Administrator for approval.

**[45CSR23, 40 C.F.R. §§60.755(a)(3), (4) and (5)]**

- 4.2.2. Each owner or operator seeking to comply with 40 C.F.R. §60.752(b)(2)(ii)(A) for an active gas collection system shall install a sampling port and a thermometer, other temperature measuring device, or an access port for temperature measurements at each wellhead and:
- a. Measure the gauge pressure in the gas collection header on a monthly basis as provided in Section 4.2.1.a [40 C.F.R. §60.755(a)(3)]; and
  - b. Monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis as provided in Section 4.2.1.c [40 C.F.R. §60.755(a)(5)]; and
  - c. Monitor temperature of the landfill gas on a monthly basis as provided in Section 4.2.1.c [40 C.F.R. §60.755(a)(5)].

**[45CSR23, 40 C.F.R. §60.756(a)]**

- 4.2.3. The following procedures shall be used for compliance with the surface methane operational standard as provided in Section 4.1.5 [40 C.F.R. §60.753(d)].
- a. After installation of the collection system, the owner or operator shall monitor surface concentrations of methane along the entire perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals (or a site-specific established spacing) for each collection area on a quarterly basis using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in Section 4.2.4 [40 C.F.R. §60.755(d)].
  - b. The background concentration shall be determined by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells.
  - c. Surface emission monitoring shall be performed in accordance with 40 C.F.R. Part 60 Appendix A, Section 4.3.1 of Method 21, except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. Monitoring shall be performed during typical meteorological conditions.
  - d. Any reading of 500 parts per million or more above background at any location shall be recorded as a monitored exceedance and the actions specified in Section 4.2.3.d.i through v [40 C.F.R. §§60.755(c)(4)(i) through (v)] shall be taken. As long as the specified actions are taken, the exceedance is not a violation of the operational requirements of Section 4.1.5 [40 C.F.R. §60.753(d)].
    - i. The location of each monitored exceedance shall be marked and the location recorded.
    - ii. Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the gas collection in the vicinity of each exceedance shall be made and the location shall be re-monitored within 10 calendar days of detecting the exceedance.

- iii. If the re-monitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be monitored again within 10 days of the second exceedance. If the re-monitoring shows a third exceedance for the same location, the action specified in Section 4.2.3.d.v [40 C.F.R. §60.755(c)(4)(v)] shall be taken, and no further monitoring of that location is required until the action specified in Section 4.2.3.d.v [40 C.F.R. §60.755(c)(4)(v)] has been taken.
  - iv. Any location that initially showed an exceedance but has a methane concentration less than 500 ppm methane above background at the 10-day re-monitoring specified in Section 4.2.3.d.ii or iii [40 C.F.R. §§60.755(c)(4)(ii) or (iii)] shall be re-monitored 1 month from the initial exceedance. If the 1-month re-monitoring shows a concentration less than 500 parts per million above background, no further monitoring of that location is required until the next quarterly monitoring period. If the 1-month re-monitoring shows an exceedance, the actions specified in Section 4.2.3.d.iii or v [40 C.F.R. §§60.755(c)(4)(iii) or (v)] shall be taken.
  - v. For any location where monitored methane concentration equals or exceeds 500 parts per million above background three times within a quarterly period, a new well or other collection device shall be installed within 120 calendar days of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipes or control device, and a corresponding timeline for installation may be submitted to the Administrator for approval.
- e. The owner or operator shall implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis.

**[45CSR23, 40 C.F.R. § 60.755 (c)]**

- 4.2.4. Each owner or operator seeking to comply with the provisions in Section 4.2.3 [40 C.F.R. §60.755(c)] shall comply with the following instrumentation specifications and procedures for surface emission monitoring devices:
- a. The portable analyzer shall meet the instrument specifications provided in 40 C.F.R. Part 60 Appendix A, Method 21, Section 3, except that “methane” shall replace all references to VOC.
  - b. The calibration gas shall be methane, diluted to a nominal concentration of 500 parts per million in air.
  - c. To meet the performance evaluation requirements in 40 C.F.R. Part 60 Appendix A, Method 21, Section 3.1.3, the instrument evaluation procedures of 40 C.F.R. Part 60 Appendix A, Method 21, Section 4.4 shall be used.
  - d. The calibration procedures provided in 40 C.F.R. Part 60 Appendix A, Method 21, Section 4.2 shall be followed immediately before commencing a surface monitoring survey.

**[45CSR23, 40 C.F.R. §60.755(d)]**

- 4.2.5. The provisions of 40 C.F.R. Part 60 Subpart WWW apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction shall not exceed 5 days for collection systems and shall not exceed 1 hour for treatment or control devices.

**[45CSR23, 40 C.F.R. §60.755(e)]**

### **4.3. Testing Requirements**

- 4.3.1. See 40 C.F.R. §60.754 for test methods and procedures.

### **4.4. Recordkeeping Requirements**

- 4.4.1. Each owner or operator of a controlled landfill shall keep up-to-date, readily accessible records for the life of the control equipment of the data listed in Section 4.4.1.a [40 C.F.R. §60.758(b)(1)] as measured during the initial performance test or compliance determination. Records of subsequent tests or monitoring shall be maintained for a minimum of 5 years. Records of the control device vendor specifications shall be maintained until removal.

- a. Where an owner or operator subject to the provisions of 40 C.F.R. Part 60 Subpart WWW seeks to demonstrate compliance with Section 4.1.2 [40 C.F.R. §60.752(b)(2)(ii)]:

- i. The maximum expected gas generation flow rate as calculated in 40 C.F.R. §60.755(a)(1). The owner or operator may use another method to determine the maximum gas generation flow rate, if the method has been approved by the Administrator.

- ii. The density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in 40 C.F.R. §60.759(a)(1).

**[45CSR23, 40 C.F.R. §§60.758(b) and (b)(1)]**

- 4.4.2. Each owner or operator of a controlled landfill subject to the provisions of 40 C.F.R. Part 60 Subpart WWW shall keep for 5 years up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in 40 C.F.R. § 60.756 as well as up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded.

**[45CSR23, 40 C.F.R. §60.758(c)]**

- 4.4.3. Each owner or operator subject to the provisions of 40 C.F.R. Part 60 Subpart WWW shall keep for the life of the collection system an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector.

- a. Each owner or operator subject to the provisions of 40 C.F.R. Part 60 Subpart WWW shall keep up-to-date, readily accessible records of the installation date and location of all newly installed collectors as specified under Section 4.1.8 [40 C.F.R. §60.755(b)].

- b. Each owner or operator subject to the provisions of 40 C.F.R. Part 60 Subpart WWW shall keep readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing or nondegradable waste excluded from collection as provided in 40 C.F.R. §60.759(a)(3)(i) as well as any nonproductive areas excluded from collection as provided in 40 C.F.R. §60.759(a)(3)(ii).

**[45CSR23, 40 C.F.R. §60.758(d)]**

- 4.4.4. Each owner or operator subject to the provisions of 40 C.F.R. Part 60 Subpart WWW shall keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances of the operational standards in 40 C.F.R. §60.753, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance.

**[45CSR23, 40 C.F.R. §60.758(e)]**

## 4.5. Reporting Requirements

- 4.5.1. Closure Report - The permittee shall submit a closure report to the Division of Air Quality within 30 days of the date the MSW landfill stopped accepting waste.  
[45CSR23, 40 C.F.R. §60.757(d)]
- 4.5.2. Each owner or operator of a landfill seeking to comply with 40 C.F.R. §60.752(b)(2) using an active collection system designed in accordance with Section 4.1.2 [40 C.F.R. §60.752(b)(2)(ii)] shall submit to the Administrator annual reports (see Section 5.4.4) of the recorded information in Section 4.5.2.a through 4.5.2.f [40 C.F.R. §§60.757(f)(1) through (f)(6)]. For enclosed combustion devices and flares, reportable exceedances are defined under 40 C.F.R. §60.758(c).
- a. Value and length of time for exceedance of applicable parameters monitored under Sections 4.2.2 and 5.2.2 [40 C.F.R. §§60.756(a) and (c)] and 40 C.F.R. §§60.756(b) and (d).
  - b. Description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow as specified under 40 C.F.R. §60.756.
  - c. Description and duration of all periods when the control device was not operating for a period exceeding 1 hour and length of time the control device was not operating.
  - d. All periods when the collection system was not operating in excess of 5 days.
  - e. The location of each exceedance of the 500 parts per million methane concentration as provided in 40 C.F.R. §60.753(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month.
  - f. The date of installation and the location of each well or collection system expansion added pursuant to 40 C.F.R. §§60.755(a)(3), (b), and (c)(4).

Note: Permittee may follow the reporting period and report submittal deadlines as stated in the Section 3.5.6 for the reports required under [45CSR23, 40 C.F.R. §60.757(f)].

**[45CSR23, 40 C.F.R. §60.757(f)]**

## 4.6. Compliance Plan

- 4.6.1. None.

## 5.0 Flare (F1) [emission point ID(s): 01-F1]

### 5.1. Limitations and Standards

5.1.1. Flare (01-F1) emissions to the atmosphere shall not exceed the following limits:

Emission Point ID	Pollutant	Maximum Emissions	
		Lbs/hour	TPY
01-F1	Volatile Organic compounds (VOC)	0.02	0.05
	Carbon Monoxide (CO)	0.04	0.13
	Sulfur Dioxide (SO <sub>2</sub> )	0.49	1.79
	Nitrogen Oxide (NO <sub>x</sub> )	2.59	9.45
	Particulate Matter (PM/PM <sub>10</sub> )	0.51	2.21

Compliance with this requirement will demonstrate compliance with 45CSR§6-4.1 PM emission limit.

**[45CSR13, R13-2731, 4.1.1. and 4.1.6.; 45CSR§6-4.1.]**

5.1.2. Only landfill gas generated from the municipal solid waste contained in the Wetzel County Sanitary Landfill shall be routed to and combusted in the flare (01-F1).

**[45CSR13, R13-2731, 4.1.2.]**

5.1.3. The permittee shall install, calibrate, maintain, and operate according to the manufacturer's specifications an infra-red sensor and thermocouple at the pilot light or the flame itself to indicate the continuous presence of a flame. When the heat sensing device detects failure of the flame, the flare system (F1) shall automatically attempt to re-ignite the flame. In the event that the pilot flame fails, re-ignition will be attempted 3 times with 1-2 minutes between attempts. If the flame goes out, the flare (F1), the flame will need to be manually restarted.

**[45CSR13, R13-2731, 4.1.3.]**

5.1.4. The Flare System (F1) shall be designed to achieve a minimum destruction efficiency of 98% for volatile organic compounds (VOCs).

**[45CSR13, R13-2731, 4.1.4.]**

5.1.5. The amount of landfill gas consumed/ fed to the flare (F1) shall not exceed 1200 scf/min and 630,720,000 scf/yr.

**[45CSR13, R13-2731, 4.1.5.]**

5.1.6. Visible particulate matter emissions from open flare shall not exceed twenty (20%) percent opacity.

**[45CSR§6-4.3. and 45CSR13, R13-2731, 4.1.7.]**

5.1.7. The provisions of Section 5.1.6 [45CSR§6-4.3.] shall not apply to smoke which is less than forty (40%) percent opacity, for a period or periods aggregating no more than eight (8) minutes per start-up.

**[45CSR§6-4.4. and 45CSR13, R13-2731, 4.1.8.]**

5.1.8. The emission of particles of unburned or partially burned refuse or ash from the flare which are large enough to be individually distinguished in the open air shall not be allowed or permitted.

**[45CSR§6-4.5. and 45CSR13, R13-2731, 4.1.9.]**

- 5.1.9. The flare, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent the emission of objectionable odors.  
**[45CSR§6-4.6. and 45CSR13, R13-2731, 4.1.10.]**
- 5.1.10. If the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, the owner or operator shall route all the collected gas to a control system that complies with the requirements in 40 C.F.R. §60.752 (b)(2)(iii)(A).
- a. An open flare designed and operated in accordance with 40 C.F.R. § 60.18.  
**[45CSR23, 40 C.F.R. §§60.752(b)(2) and (b)(2)(iii)(A) and 45CSR13, R13-2731, 4.1.11.]**
- 5.1.11. Flares shall be designed for and operated with no visible emissions as determined by the methods specified in 40 C.F.R. § 60.18 (f), except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.  
**[45CSR16, 40 C.F.R. §60.18(c)(1) and 45CSR13, R13-2731, 4.1.12.]**
- 5.1.12. Flares shall be operated with a flame present at all times, as determined by the methods specified in 40 C.F.R. §60.18(f).  
**[45CSR16, 40 C.F.R. §60.18(c)(2) and 45CSR13, R13-2731, 4.1.13.]**
- 5.1.13. The non-assisted open flare shall have a net heating value of the gas being combusted being 7.45 MJ/scm (200 Btu/scf) or greater. The net heating value of the gas being combusted shall be determined by the methods specified in 40 C.F.R. §60.18(f)(3).  
**[45CSR16, 40 C.F.R. §60.18(c)(3)(ii) and 45CSR13, R13-2731, 4.1.14.]**
- 5.1.14. The non-assisted open flare shall be designed for and operated with an exit velocity, as determined by the methods specified in 40 C.F.R. §60.18(f)(4), less than 18.3 m/sec (60 ft/sec), except as provided in 40 C.F.R. §§60.18(c)(4)(ii) and (iii).  
**[45CSR16, 40 C.F.R. §60.18(c)(4)(i) and 45CSR13, R13-2731, 4.1.15.]**
- 5.1.15. Flares used to comply with provisions of 40 C.F.R. Part 60 Subpart A shall be operated at all times when emissions may be vented to them.  
**[45CSR16, 40 C.F.R. §60.18(e) and 45CSR13, R13-2731, 4.1.16.]**
- 5.1.16. For approval of collection and control systems that include any alternatives to the operational standards, test methods, procedures, compliance measures, monitoring, recordkeeping or reporting provisions, you must follow the procedures in 40 C.F.R. §60.752(b)(2). If alternatives have already been approved under 40 C.F.R. Part 60 Subpart WWW or the Federal plan, or EPA approved and effective State or tribal plan, these alternatives can be used to comply with 40 C.F.R. Part 63 Subpart AAAA, except that all affected sources must comply with the start-up, shutdown, and malfunction (SSM) requirements in 40 C.F.R. Part 63 Subpart A as specified in Table 1 of 40 C.F.R. Part 63 Subpart AAAA and all affected sources must submit compliance reports every 6 months as specified in 40 C.F.R. §§63.1980(a) and (b), including information on all deviations that occurred during the 6-month reporting period. Deviations for continuous emission monitors or numerical continuous parameter monitors must be determined using a 3 hour monitoring block average.  
**[45CSR34, 40 C.F.R. §63.1955(c) and 45CSR13, R13-2731, 4.1.17.]**

- 5.1.17. Compliance is determined in the same way it is determined for 40 C.F.R. Part 60 Subpart WWW, including performance testing, monitoring of the collection system, continuous parameter monitoring, and other credible evidence. In addition, continuous parameter monitoring data, collected under 40 C.F.R. §§60.756(b)(1), (c)(1), and (d), are used to demonstrate compliance with the operating conditions for control systems. If a deviation occurs, the facility has failed to meet the control device operating conditions described in 40 C.F.R. Part 63 Subpart AAAA and have deviated from the requirements of 40 C.F.R. Part 63 Subpart AAAA. Finally, the facility must develop a written SSM plan according to the provisions in 40 C.F.R. §63.6(e)(3). A copy of the SSM plan must be maintained on site. Failure to write or maintain a copy of the SSM plan is a deviation from the requirements of 40 C.F.R. Part 63 Subpart AAAA.  
**[45CSR34, 40 C.F.R. §63.1960 and 45CSR13, R13-2731, 4.1.18.]**
- 5.1.18. For Startup, Shutdown, and Malfunction (SSM) Plan requirements see 40 C.F.R. §63.6(e).  
**[45CSR13, R13-2731, 4.1.19.]**
- 5.1.19. **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0 and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary.  
**[45CSR13, R13-2731, 4.1.20.]**

## **5.2. Monitoring Requirements**

- 5.2.1. For the purpose of determining compliance with the opacity limits of 5.1.6 and 5.1.7, visible emission checks of the flare shall be conducted using 40 C.F.R. Part 60, Appendix A, Method 22. The visible emission check shall determine the presence or absence of visible emissions. At a minimum, the observer must be trained and knowledgeable regarding the effects of background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water (condensing water vapor) on the visibility of emissions. This training may be obtained from written materials found in the References 1 and 2 from 40 C.F.R. Part 60, Appendix A, Method 22 or from the lecture portion of the 40 C.F.R. Part 60 Appendix A, Method 9 certification course.

Visible emission checks shall be conducted at least once per calendar month with a maximum of forty-five (45) days between consecutive readings. These checks shall be performed at each source flare for a sufficient time interval, but no less than one (1) minute, to determine if any visible emissions are present. Visible emission checks shall be performed during periods of facility operation and appropriate weather conditions

If visible emissions are present at a source(s) for three (3) consecutive monthly checks, the permittee shall conduct an opacity reading at that source(s) using the procedures and requirements of Method 9 as soon as practicable, but within seventy-two (72) hours of the final visual emission check. A Method 9 observation at a source(s) restarts the count of the number of consecutive readings with the presence of visible emissions. If Method 9 shows a noncompliant result, the facility shall take appropriate remedial action to correct the situation.

**[45CSR13, R13-2731, 4.2.1.]**

- 5.2.2. Each owner or operator seeking to comply with Section 5.1.10 [40 C.F.R. §60.752(b)(2)(iii)] using an open flare shall install, calibrate, maintain, and operate according to the manufacturer's specifications the following equipment:

- a. A heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame.
- b. A device that records flow to or bypass of the flare. The owner or operator shall either:
  - i. Install, calibrate, and maintain a gas flow rate measuring device that shall record the flow to the control device at least every 15 minutes; or
  - ii. Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.

**[45CSR23, 40 C.F.R. §60.756(c) and 45CSR13, R13-2731, 4.2.2.]**

### **5.3. Testing Requirements**

- 5.3.1. At such reasonable times as the Director may designate, the operator of any incinerator shall be required to conduct or have conducted stack tests for the flares to determine the particulate matter loading, by using 40 C.F.R. Part 60, Appendix A, Method 5 or other equivalent EPA approved method approved by the Director, in exhaust gases. Such tests shall be conducted in such manner as the Director may specify and be filed on forms and in a manner acceptable to the Director. The Director, or the Director's authorized representative, may at the Director's option witness or conduct such stack tests. Should the Director exercise his option to conduct such tests, the operator will provide all the necessary sampling connections and sampling ports to be located in such manner as the Director may require, power for test equipment and the required safety equipment such as scaffolding, railings and ladders to comply with generally accepted good safety practices.  
**[45CSR§6-7.1. and 45CSR13, R13-2731, 4.3.1.]**

### **5.4. Recordkeeping Requirements**

- 5.4.1. The permittee shall maintain records of all monitoring data required by Section 5.2.1, documenting the date and time of each visible emission check, the emission point or equipment/source identification number, the name or means of identification of the observer, the results of the check(s), whether the visible emissions are normal for the process, and, if applicable, all corrective measures taken or planned. The permittee shall also record the general weather conditions (i.e. sunny, approximately 80oF, 6 - 10 mph NE wind) during the visual emission check(s). An example form is supplied in the Appendix as Attachment A of this permit. Should a visible emission observation be required to be performed per the requirements specified in Method 9, the data records of each observation shall be maintained per the requirements of Method 9. For an emission unit out of service during the normal monthly evaluation, the record of observation may note "out of service" (O/S) or equivalent.  
**[45CSR13, R13-2731, 4.4.4.]**
- 5.4.2. Each owner or operator of a controlled landfill shall keep up-to-date, readily accessible records for the life of the control equipment of the data listed in 40 C.F.R. §60.758(b)(4) as measured during the initial performance test or compliance determination. Records of subsequent tests or monitoring shall be maintained for a minimum of 5 years. Records of the control device vendor specifications shall be maintained until removal.

- a. Where an owner or operator subject to the provisions of 40 C.F.R. Part 60 Subpart WWW seeks to demonstrate compliance with Section 5.1.10 [40 C.F.R. §60.752(b)(2)(iii)(A)] through use of an open flare, the flare type (i.e., steam-assisted, air-assisted, or non-assisted), all visible emission readings, heat content determination, flow rate or bypass flow rate measurements, and exit velocity determinations made during the performance test as specified in 40 C.F.R. §60.18; continuous records of the flare pilot flame or flare flame monitoring and records of all periods of operations during which the pilot flame of the flare flame is absent.

**[45CSR23, 40 C.F.R. §§60.758(b) and (b)(4) and 45CSR13, R13-2731, 4.4.5.]**

- 5.4.3. Each owner or operator seeking to comply with the provisions of 40 C.F.R. Part 60 Subpart WWW by use of an open flare shall keep up-to-date, readily accessible continuous records of the flame or flare pilot flame monitoring specified under Section 5.2.2 [40 C.F.R. §60.756(c)], and up-to-date, readily accessible records of all periods of operation in which the flame or flare pilot flame is absent.

**[45CSR23, 40 C.F.R. §60.758(c)(4) and 45CSR13, R13-2731, 4.4.6.]**

- 5.4.4. Keep records and reports as specified in 40 C.F.R. Part 60 Subpart WWW or EPA approved State plan that implements 40 CFR Part 60 Subpart Cc, whichever applies to your landfill, with one exception: You must submit the annual report described in Section 4.5.2 [40 C.F.R. § 60.757 (f)] every 6 months.

**[45CSR34, 40 C.F.R. §63.1980(a) and 45CSR13, R13-2731, 4.4.7.]**

- 5.4.5. You must also keep records and reports as specified in the general provisions of 40 C.F.R. Part 60 and 40 C.F.R. Part 63 Subpart AAAA, Table 1. Applicable records in the general provisions include items such as SSM plans and the SSM plan reports.

**[45CSR34, 40 C.F.R. §63.1980(b) and 45CSR13, R13-2731, 4.4.8.]**

- 5.4.6. **Record of Maintenance of Air Pollution Control Equipment.** The permittee shall maintain accurate records of all required Flare (01-F1) inspection and/or preventative maintenance procedures.

**[45CSR13, R13-2731, 4.4.2.]**

- 5.4.7. **Record of Malfunctions of Air Pollution Control Equipment.** The permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the Flare (01-F1) during which excess emissions occur. For each such case, the following information shall be recorded:

- a. The equipment involved.
- b. Steps taken to minimize emissions during the event.
- c. The duration of the event.
- d. The estimated increase in emissions during the event.

For each such case associated with an equipment malfunction, the additional information shall also be recorded:

- e. The cause of the malfunction.
- f. Steps taken to correct the malfunction.

- g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.

**[45CSR13, R13-2731, 4.4.3.]**

- 5.4.8. For the purpose of demonstrating compliance with the emission limits and throughput limits set forth in 5.1.1 and 5.1.5, the permittee shall maintain accurate records of the amount of landfill gas consumed/fed to the flare system. Compliance with the annual consumption limit shall be determined using a 12-month rolling total. A 12-month rolling total shall mean the sum of natural gas consumed at any given time for the previous twelve (12) calendar months. Said records shall be maintained on site for a period of five (5) years. Said records shall be made available to the Director of the Division of Air Quality or his/her duly authorized representative upon request and shall be certified by a responsible official upon the submittal.

**[45CSR13, R13-2731, 4.4.9.]**

## **5.5. Reporting Requirements**

- 5.5.1. Any violation(s) of the allowable visible emission requirement for any emission source discovered during observations using 40 C.F.R. Part 60, Appendix A, Method 9 must be reported in writing to the Director of the Division of Air Quality as soon as practicable, but within ten (10) calendar days, of the occurrence and shall include, at a minimum, the following information: the results of the visible determination of opacity of emissions, the cause or suspected cause of the violation(s), and any corrective measures taken or planned.

**[45CSR13, R13-2731, 4.5.1.]**

- 5.5.2. The permittee shall follow the procedure for submitting SSM semi-annual reports, see 40 C.F.R. §§63.10(a)(5) and (d)(5).

**[45CSR13, R13-2731, 4.5.2.]**

## **5.6. Compliance Plan**

- 5.6.1. None.

**6.0 Rock Crushing and Screening Operations [emission point ID(s): 1S through 14S and TP1 through TP13]**

**6.1. Limitations and Standards**

- 6.1.1. The rock crushing and screening operations shall not exceed 200 tons per hour (TPH) and 300,000 tons per year (TPY). The annual rock crushing and screening rate shall be determined on a rolling twelve month total. **[45CSR13, R13-2463, A.1.]**
- 6.1.2. In accordance with the information filed in Permit Application R13-2463, the following equipment shall be installed, maintained, and operated so as to minimize particulate matter (PM) emissions:

Equipment Description	Equipment ID No.	Method of Control
<b>Transfer Points</b>		
Bulldozer pushing material into pile OS1.	TP1	MDH
Front end loader loading hopper (B1).	TP2	MDH
Feed from hopper (B1) into crusher (C1)	TP3	MDH
Batch drop from crusher onto BC1.	TP4	MDH
Batch drop from BC1 onto BC2.	TP5	MDH
Batch drop from BC2 onto screener.	TP6	MDH
Batch drop oversized material onto BC3.	TP7	MDH
Batch drop midsized material onto BC4.	TP8	MDH
Batch drop undersized material onto BC5.	TP9	MDH
Batch drop oversized material onto OS2 from BC3.	TP10	MDH
Batch drop midsized material onto OS3 from BC4.	TP11	MDH
Batch drop undersized material onto OS4 from BC5.	TP12	MDH
Front end loader loading screened material.	TP13	MDH
<b>Screening Operations</b>		
Screening	SC1	FE
<b>Crushing Operations</b>		
Crushing	C1	FE
<b>Belt Conveyors</b>		
Belt conveyor from crusher.	BC1	N
Belt conveyor to screener.	BC2	N
Oversized material belt conveyor to stockpile.	BC3	N
Midsized material belt conveyor to stockpile.	BC4	N
Undersized material belt conveyor to stockpile.	BC5	N
<b>Open Stockpiles</b>		
Unprocessed material stockpile.	OS1	MC
Oversized material stockpile.	OS2	MC
Midsided material stockpile.	OS3	MC
Undersized material stockpile.	OS4	MC
<b>Miscellaneous</b>		
Feed hopper and bin.	B1	PE
Unpaved haul roads.	VT	N
533 hp diesel engine to power crusher/screener operation.	DG1	WT

Equipment Description	Equipment ID No.	Method of Control
<b>Methods of Control</b>		
MDH – minimize drop height	FE – full enclosure	PE – partial enclosure
MC – inherent moisture content	WT – water truck	N – no controls

**[45CSR13, R13-2463, A.2.]**

- 6.1.3. Emissions to the atmosphere from the 533 hp diesel engine (DG1), Equipment ID No. DG1, shall not exceed the following:

Pollutant	Emissions Limit	
	PPH	TPY
NO <sub>x</sub>	16.01	70.13
CO	3.45	15.12
SO <sub>2</sub>	1.05	4.60
PM <sub>10</sub>	1.13	4.95
VOC	1.27	5.57

**[45CSR13, R13-2463, A.3.]**

- 6.1.4. Fugitive emissions to the atmosphere from transfer points TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, and TP12, from feed hopper and bin B1, from screening operations SC1, from belt conveyors BC1, BC2, BC3, BC4, and BC5, from open stockpiles OS1, OS2, and OS3, and from unpaved haul roads VT shall not exceed 10 percent opacity. Fugitive emissions to the atmosphere from crushing operations C1 shall not exceed 15 percent opacity.

**[45CSR13, R13-2463, A.4.]**

- 6.1.5. Fugitive particulate dust control system(s) shall be properly designed, installed, operated, and maintained in such a manner so as to minimize the generation and entrainment of fugitive particulate emissions. Such system(s) at a minimum shall include, but not be limited to:

- a. The permittee shall maintain functional water sprays to apply water or a mixture of water and an environmentally acceptable dust control additive (solution) to haulroads and work areas where mobile equipment is used. The water sprays shall be equipped with commercially available spray nozzles of sufficient size and number so as to provide adequate coverage to the area being treated. The water sprays shall be capable of delivering an adequate quantity of water or solution at a sufficient pressure to ensure the minimization of atmospheric entrainment of fugitive particulate emissions generated from haulroads, work areas, and stockpiles. The water sprays shall be in operation at all times when fugitive particulate emissions from haulroads, work areas, and stockpiles are generated as a result of activity or wind.
- b. All water sprays shall employ properly designed, installed, and maintained winterization systems in such a manner so that all fugitive particulate dust control systems remain functional when ambient temperatures are below 32 degrees Fahrenheit (°F).

**[45CSR13, R13-2463, B.5.]**

- 6.1.6. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in 45CSR§§7-3.2 (Section 6.1.7.), 3.3, 3.4, 3.5, 3.6, and 3.7.  
**[45CSR§7-3.1., 45CSR13, R13-2463, B.6.]**
- 6.1.7. The provisions of Section 6.1.6 [45CSR§7-3.1.] shall not apply to smoke and/or particulate matter emitted from any process source operation which is less than forty (40) percent opacity for any period or periods aggregating no more than five (5) minutes in any sixty (60) minute period.  
**[45CSR§7-3.2., 45CSR13, R13-2463, B.6.]**
- 6.1.8. No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A found at the end of 45CSR7. The allowable particulate matter that can be vented from the TP1 through TP13 and 1S through 14S is 43 LB/hr.  
**[45CSR§7-4.1., 45CSR13, R13-2463, B.6.]**
- 6.1.9. No person shall cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable.  
**[45CSR§7-5.1., 45CSR13, R13-2463, B.6.]**
- 6.1.10. The owner or operator of a plant shall maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmospheric entrainment.  
**[45CSR§7-5.2., 45CSR13, R13-2463, B.6.]**
- 6.1.11. Due to unavoidable malfunction of equipment, emissions exceeding those set forth in 45CSR7 may be permitted by the Director for periods not to exceed ten (10) days upon specific application to the Director. Such application shall be made within twenty-four (24) hours of the malfunction. In cases of major equipment failure, additional time periods may be granted by the Director provided a corrective program has been submitted by the owner or operator and approved by the Director.  
**[45CSR§7-9.1., 45CSR13, R13-2463, B.6.]**
- 6.1.12. Affected facilities must meet the fugitive emission limits and compliance requirements in Table 3 of 40 C.F.R. Part 60 Subpart OOO within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 40 C.F.R. §60.11. The requirements in Table 3 of 40 C.F.R. Part 60 Subpart OOO apply for fugitive emissions from affected facilities without capture systems and for fugitive emissions escaping capture systems.  
**[45CSR16, 40 C.F.R. §60.672(b), 45CSR13, R13-2463, B.7.]**
- 6.1.13. Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of 40 C.F.R. §60.672.  
**[45CSR16, 40 C.F.R. §60.672(d), 45CSR13, R13-2463, B.7.]**

- 6.1.14. The permitted facility shall be constructed and operated in accordance with information filed in Permit Application R13-2463 and any amendments thereto. The Director may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to.  
**[45CSR13, R13-2463, C.3.]**

## **6.2. Monitoring Requirements**

- 6.2.1. For the purpose of determining compliance with the opacity limits set forth in Section 6.1.4, the permittee shall perform monthly Method 9 tests of the rock crushing and screening operations during any month in which the operation is in use. The permittee shall perform these tests in accordance with the test methods and procedures as described in 40 C.F.R. § 60.675 Subpart OOO. The permittee shall maintain records of these opacity tests utilizing the forms given in 40 C.F.R. Part 60 Appendix A. These records shall be maintained on-site for a period of not less than five (5) years and made available upon request to the Director or his designated representatives.  
**[45CSR13, R13-2463, B.4.]**

## **6.3. Testing Requirements**

- 6.3.1. At such reasonable times as the Director may designate, the operator of any manufacturing process source operation may be required to conduct or have conducted stack tests to determine the particulate matter loading in exhaust gases. Such tests shall be conducted in such manner as the Director may specify and be filed on forms and in a manner acceptable to the Director. The Director, or his duly authorized representative, may at his option witness or conduct such stack tests. Should the Director exercise his option to conduct such tests, the operator will provide all the necessary sampling connections and sampling ports to be located in such manner as the Director may require, power for test equipment and the required safety equipment such as scaffolding, railings and ladders to comply with generally accepted good safety practices.  
**[45CSR§7-8.1., 45CSR13, R13-2463, B.6.]**
- 6.3.2. The Director, or his duly authorized representative, may conduct such other tests as he or she may deem necessary to evaluate air pollution emissions.  
**[45CSR§7-8.2., 45CSR13, R13-2463, B.6.]**
- 6.3.3. In conducting the performance tests required in 40 C.F.R. §60.8, the owner or operator shall use as reference methods and procedures the test methods in 40 C.F.R. Part 60 Appendices A–1 through A–7 or other methods and procedures as specified in this section, except as provided in 40 C.F.R. §60.8(b). Acceptable alternative methods and procedures are given in 40 C.F.R. §60.675(e).  
**[45CSR16, 40 C.F.R. §60.675(a), 45CSR13, R13-2463, B.7.]**
- 6.3.4. In determining compliance with the particulate matter standards in 40 C.F.R. §60.672(b), the owner or operator shall use 40 C.F.R. Part 60 Appendix A–4, Method 9 and the procedures in 40 C.F.R. §60.11, with the following additions:
- a. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
  - b. 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 of 40 C.F.R. Part 60 Appendix A–4, Section 2.1) must be followed.

- c. 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.

**[45CSR16, 40 C.F.R. §60.675(c)(1); 45CSR13, R13-2463, B.7.]**

- 6.3.5. When determining compliance with the fugitive emissions standard for any affected facility described under 40 C.F.R. §60.672 (b), the duration of the Method 9 (40 C.F.R. Part 60, Appendix A–4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of 40 C.F.R. Part 60 Subpart OOO must be based on the average of the five 6-minute averages.

**[45CSR16, 40 C.F.R. §60.675(c)(3); 45CSR13, R13-2463, B.7.]**

- 6.3.6. The owner or operator may use the following as alternatives to the reference methods and procedures specified in 40 C.F.R. §60.675:

- a. For the method and procedure of Section 6.3.4 [40 C.F.R. § 60.675 (c)], if emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used:

- i. Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream.
- ii. Separate the emissions so that the opacity of emissions from each affected facility can be read.

**[45CSR16, 40 C.F.R. §60.675(e)(1), 45CSR13, R13-2463, B.7.]**

#### **6.4. Recordkeeping Requirements**

- 6.4.1. For the purpose of determining compliance with the maximum hourly and annual processing rate set forth in Section 6.1.1, the permittee shall maintain hourly, monthly, and yearly records utilizing the forms given in Attachments A and B of the Appendix. These records shall be maintained on-site for a period of not less than five (5) years and made available upon request to the Director or his designated representatives.

**[45CSR13, R13-2463, B.2.]**

#### **6.5. Reporting Requirements**

- 6.5.1. The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 C.F.R. § 60.672, including reports of opacity observations made using Method 9 (40 C.F.R. Part 60 Appendix A–4) to demonstrate compliance with 40 C.F.R. §60.672(b).

**[45CSR16, 40 C.F.R. §60.676(f), 45CSR13, R13-2463, B.7.]**

#### **6.6. Compliance Plan**

- 6.6.1. None.

**7.0 Screening (1S), Active Composting (2S), Pretreatment Biofilter (PT Biofilter), and Main Biofilter (1C) [emission point ID(s): (1E & 2E)]**

**7.1. Limitations and Standards**

7.1.1. Emissions to the atmosphere from the composting of sewage sludge shall not exceed these emission limits.

Emission Point	Pollutant	Emission Limit	
		Lb/hr	TPY
1E and 2E	PM10	1.20	1.50
	VOC	1.07	4.67
	Carbon Disulfide*	0.10	0.42
	Triethylamine*	0.10	0.44
	Ammonia	6.50	28.5
	Hydrogen Sulfide	0.05	0.21

\* Hazardous Air Pollutant (HAP)

Compliance with this streamlined condition shall ensure compliance with 45CSR§7-4.1 (Section 7.1.8).

**[45CSR13, R13-2476, 4.1.1.]**

7.1.2. The permittee shall not process more than 5,000 wet tons of sewage sludge per month at the sewage sludge composting facility.

**[45CSR§13-5.11, 45CSR13, R13-2476, 4.1.2.]**

7.1.3. The permittee shall observe the control program for objectionable odors contained in this permit by properly operating and maintaining the sewage sludge composting facility and associated biofilter.

**[45CSR§4-6.1, 45CSR13, R13-2476, 4.1.3.]**

7.1.4. The permittee shall not cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in 45CSR§§7-3.2 (Section 7.1.5.), 3.3, 3.4, 3.5, 3.6, and 3.7.

**[45CSR§7-3.1, 45CSR13, R13-2476, 4.1.4.]**

7.1.5. The provisions of Section 7.1.4 [45CSR§7-3.1.] shall not apply to smoke and/or particulate matter emitted from any process source operation which is less than forty (40) percent opacity for any period or periods aggregating no more than five (5) minutes in any sixty (60) minute period.

**[45CSR§7-3.2, 45CSR13, R13-2476, 4.1.5.]**

7.1.6. The permittee shall not cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To minimize means such systems shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable.

**[45CSR§7-5.1, 45CSR13, R13-2476, 4.1.6.]**

7.1.7. The permittee shall maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust

control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmospheric entrainment.

**[45CSR§7-5.2, 45CSR13, R13-2476, 4.1.7.]**

7.1.8. No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A found at the end of 45CSR7. The allowable particulate matter that can be vented from the 1E & 2E is 35 LB/hr.

**[45CSR§7-4.1]**

7.1.9. The permitted facility shall be constructed and operated in accordance with information filed in Permit Application R13-2476, R13-2476A and any amendments thereto. The Director may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to.

**[45CSR13, R13-2476, 2.5.1.]**

7.1.10. **Maintenance of Air Pollution Control Equipment.** The permittee shall install, operate, and maintain all pollution control equipment in accordance with the manufacturer's specifications so as to provide the guaranteed minimum control efficiency, or with any more stringent control requirements as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary.

**[45CSR§13-5.11., 45CSR13, R13-2476, 3.1.8.]**

## **7.2. Monitoring Requirements**

7.2.1. The permittee shall, on a daily basis, perform the following monitoring:

- a. Check all windrow and biofilter fans and air ducts for leaks and operational problems.
- b. Check all sewers and leachate and condensate sumps for proper operation.
- c. Check biofilter irrigation system for leaks, low pressure, and spray pattern to assure proper moisture is maintained in the biofilter media.
- d. Check the biofilter media for wet and/or dry spots.
- e. Check humidity and temperature of the odorous air entering the biofilter.
- f. Check ammonia levels at the work area, biofilter intake, and biofilter surface.
- g. Time, duration, and tonnage of sludge mixing operations.
- h. Time, duration, and tonnage of screening operations.
- i. Total daily tons of sludge and wood chips processed.
- j. Check all compost windrow temperatures.

**[45CSR13, R13-2476, 4.2.1.]**

- 7.2.2. The permittee shall, on a monthly basis, monitor the air pressure at the biofilter fans and air distribution system monitoring locations.  
**[45CSR13, R13-2476, 4.2.2.]**

### **7.3. Testing Requirements**

- 7.3.1. The permittee shall, on a monthly basis, perform such tests necessary to verify the biofilter surface emission velocity against the design value range for the biofilter, usually 3 to 5 cubic feet per minute (cfm) per square foot (sf). Areas of the biofilter with low emission velocity shall have the biofilter media fluffed or replaced to increase porosity and velocity. High velocity areas shall be compacted or watered to reduce media porosity and as a consequence the emission velocity from those areas.  
**[45CSR13, R13-2476, 4.3.1.]**

- 7.3.2. The permittee shall, on a quarterly basis, perform the following tests:

- a. Pull air samples from each biofilter inlet and surface using five-liter Tedlar bags with polypropylene ports or alternate sampling methods as the laboratory may require for the parameter being tested.
- b. Analyze the collected air sample for ammonia, dimethyl sulfide, dimethyl disulfide, carbon disulfide, butyl mercaptan, ethyl mercaptan, methyl mercaptan, hydrogen sulfide, and triethylamine.
- c. Record biofilter media pH and moisture content.

**[45CSR13, R13-2476, 4.3.2.]**

### **7.4. Recordkeeping Requirements**

- 7.4.1. The permittee shall, on a daily basis, maintain and keep the following records:

- a. Keep daily operational logs noting the results of all checks made in Section 7.2.1, unusual occurrences, and actions taken. All entries into the operational log shall be dated and initialed by the operator who makes the entry.
- b. Keep biofilter daily operational logs noting all readings, equipment outages, unusual occurrences, and actions taken. All entries into the operational log shall be dated and initialed by the operator who makes the entry.
- c. Keep daily records of all compost windrows, including:
  - i. Daily sludge process tracking log.
  - ii. Daily windrow temperature log showing temperature probe identification, location, temperature, time, and windrow mean temperature.
  - iii. Daily activity report.

**[45CSR13, R13-2476, 4.4.1.]**

- 7.4.2. The permittee shall, on a monthly basis, maintain and keep monthly operational logs noting the results of all checks made in Sections 7.2.2 and 7.3.1, unusual occurrences, and actions taken. All entries into the operational log shall be dated and initialed by the operator who makes the entry.  
**[45CSR13, R13-2476, 4.4.2.]**
- 7.4.3. The permittee shall maintain in a spreadsheet format all quarterly air sample test results required by Section 7.3.2.  
**[45CSR13, R13-2476, 4.4.3.]**
- 7.4.4. The permittee shall keep accurate records of the amount of sewage sludge received by the composting facility on a daily basis. These records shall include, at a minimum, the following information:
- a. Time of receipt of each shipment of sewage sludge.
  - b. Tons of sludge received for each shipment.
  - c. Total daily tons of sludge received.

All entries into the shipment record shall be dated and initialed by the operator who makes the entry.

**[45CSR13, R13-2476, 4.4.4.]**

- 7.4.5. All records required by Section 7.0 shall be maintained onsite for a period of not less than five (5) years from the date generated. Certified copies of these records shall be made available to the Director of the Division of Air Quality or his or her duly authorized representative upon request.  
**[45CSR13, R13-2476, 4.4.5.]**

**7.4.6. Record of Maintenance of Air Pollution Control Equipment.**

- a. The permittee shall maintain maintenance records relating to the failure and/or repair of air pollution control devices and fugitive emissions control systems. Such records shall contain, at a minimum, the equipment ID number, a brief description of the equipment, the date of failure and/or repair, the nature of the problem, actions taken, and the name or initials of the person making the record entry. In the event of air pollution control equipment, fugitive emissions control system, or system failure, these records shall document the permittee's effort to maintain proper and effective operation of such equipment and/or systems.
- b. Air pollution control equipment maintenance records shall be retained on-site for a period of five (5) years. Certified records, signed by a Responsible Official or an Authorized Representative shall be made available to the Secretary or a duly authorized representative upon request; and
- c. Maintenance records required by this section may be kept in electronic format. The document(s) shall be printed and certified by a Responsible Official or Authorized Representative upon request.

**[45CSR13, R13-2476, 3.4.2.]**

## **7.5. Reporting Requirements**

- 7.5.1. The permittee shall prepare and submit a report to the Director of the Division of Air Quality showing the results of the quarterly air sampling required by Section 7.3.2, removal rate for each pollutant, and summary of the daily monitoring log.

**[45CSR13, R13-2476, 4.5.1.]**

## **7.6. Compliance Plan**

- 7.6.1. None.

**8.0 Stationary Reciprocating Internal Combustion Engine [emission point ID(s): 13S]**

**8.1. Limitations and Standards**

- 8.1.1. The Permittee shall comply with all applicable requirements of 40 C.F.R. Part 63 Subpart ZZZZ, Stationary Reciprocating Internal Combustion Engines by May 3, 2013 for the 533 HP diesel engine.  
**[45CSR34, 40 C.F.R. §63.6595(a)(1)]**
- 8.1.2. As stated in 40 C.F.R. §63.6603, the permittee must comply with the following requirements from 40 C.F.R. 63, Subpart ZZZZ, Table 2d for existing stationary RICE located at area sources of HAP emissions:

**Table 2d of 40 C.F.R. 63 Subpart ZZZZ**

<b>For each . . .</b>	<b>The permittee must meet the following requirements, except during periods of startup . . .</b>	<b>During periods of startup you must . . .</b>
3. Non-emergency, non-black start CI stationary RICE >500 HP	Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd at 15 percent O <sub>2</sub> ; or	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.
	Reduce CO emissions by 70 percent or more.	

**Table 2b of 40 C.F.R. 63 Subpart ZZZZ**

<b>For each . . .</b>	<b>You must meet the following operating limitation, except during periods of startup . . .</b>
2. Existing CI stationary RICE >500 HP complying with the requirement to limit or reduce the concentration of CO in the stationary RICE exhaust and using an oxidation catalyst	a. maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water from the pressure drop across the catalyst that was measured during the initial performance test; and
	b. maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F. <sup>1</sup>

<sup>1</sup>Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.8(f) for a different temperature range.

**[45CSR34, 40 C.F.R. §63.6603(a), and Tables 2d and 2b]**

- 8.1.3. If you own or operate an existing non-emergency, non-black start CI stationary RICE with a site rating of more than 300 brake HP with a displacement of less than 30 liters per cylinder that uses diesel fuel, you must use diesel fuel that meets the requirements in 40 CFR §80.510(b) for nonroad diesel fuel.  
**[45CSR34, 40 C.F.R. §63.6604(a)]**
- 8.1.4. The permittee shall comply with the following requirements:
  - a. The permittee must be in compliance with the emission limitations and operating limitations in this subpart that apply to the permittee at all times.

- b. At all times the permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if required levels have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

**[45CSR34; 40 C.F.R. §63.6605]**

- 8.1.5. The permittee must demonstrate initial compliance with each emission and operating limitation that applies to you according to Table 5 of 40 C.F.R. Part 63 Subpart ZZZZ.

**Table 5 of 40 C.F.R. 63 Subpart ZZZZ**

For each...	Complying with the requirement to...	You have demonstrated initial compliance if...
1. existing non-emergency stationary CI RICE >500 HP located at an area source of HAP	a. Reduce CO emissions and using oxidation catalyst, and using a CPMS	i. The average reduction of emissions of CO determined from the initial performance test achieves the required CO percent reduction; and
		ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b); and
		iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.
2. existing non-emergency stationary CI RICE >500 HP located at an area source of HAP	a. Limit the concentration of CO, using oxidation catalyst, and using a CPMS	i. The average CO concentration determined from the initial performance test is less than or equal to the CO emission limitation; and
		ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b); and
		iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.
3. existing non-emergency stationary CI RICE >500 HP located at an area source of HAP	a. Reduce CO emissions and not using oxidation catalyst	i. The average reduction of emissions of CO determined from the initial performance test achieves the required CO percent reduction; and
		ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in §63.6625(b); and
		iii. You have recorded the approved operating parameters (if any) during the initial performance test.
4. existing non-emergency stationary CI RICE >500 HP located at an	a. Limit the concentration of CO, and not using oxidation catalyst	i. The average CO concentration determined from the initial performance test is less than or equal to the CO emission limitation; and
		ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in §63.6625(b); and

For each...	Complying with the requirement to...	You have demonstrated initial compliance if...
area source of HAP		iii. You have recorded the approved operating parameters (if any) during the initial performance test.
5. existing non-emergency stationary CI RICE >500 HP located at an area source of HAP	a. Reduce CO emissions, and using a CEMS	i. You have installed a CEMS to continuously monitor CO and either O2 or CO2 at both the inlet and outlet of the oxidation catalyst according to the requirements in §63.6625(a); and
		ii. You have conducted a performance evaluation of your CEMS using PS 3 and 4A of 40 CFR part 60, appendix B; and
		iii. The average reduction of CO calculated using §63.6620 equals or exceeds the required percent reduction. The initial test comprises the first 4-hour period after successful validation of the CEMS. Compliance is based on the average percent reduction achieved during the 4-hour period.
6. existing non-emergency stationary CI RICE >500 HP located at an area source of HAP	a. Limit the concentration of CO, and using a CEMS	i. You have installed a CEMS to continuously monitor CO and either O2 or CO2 at the outlet of the oxidation catalyst according to the requirements in §63.6625(a); and
		ii. You have conducted a performance evaluation of your CEMS using PS 3 and 4A of 40 CFR part 60, appendix B; and
		iii. The average concentration of CO calculated using §63.6620 is less than or equal to the CO emission limitation. The initial test comprises the first 4-hour period after successful validation of the CEMS. Compliance is based on the average concentration measured during the 4-hour period.

**[45CSR34, 40 C.F.R. §63.6630(a); Table 5 of 40 C.F.R. 63 Subpart ZZZZ]**

8.1.6. The permittee shall demonstrate continuous compliance by doing the following:

- a. The permittee must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Tables 2b and 2d of 40 C.F.R. 63 Subpart ZZZZ that apply to the permittee according to methods specified in Table 6 of 40 C.F.R. 63 Subpart ZZZZ.

**Table 6 of 40 C.F.R. 63 Subpart ZZZZ**

For each . . .	Complying with the requirement to . . .	You must demonstrate continuous compliance by . . .
3. existing non-emergency stationary CI RICE >500 HP	a. Reduce CO emissions or limit the concentration of CO in the stationary RICE exhaust, and using a CEMS	i. Collecting the monitoring data according to §63.6625(a), reducing the measurements to 1-hour averages, calculating the percent reduction or concentration of CO emissions according to §63.6620; and
		ii. Demonstrating that the catalyst achieves the required percent reduction of CO emissions over the 4-hour averaging period, or that the emission remain at or below the CO concentration limit; and
		iii. Conducting an annual RATA of your CEMS using PS 3 and 4A of 40 CFR part 60, appendix B, as well as daily and periodic

For each . . .	Complying with the requirement to . . .	You must demonstrate continuous compliance by . . .
		data quality checks in accordance with 40 CFR part 60, appendix F, procedure 1.
10. Existing stationary CI RICE >500 HP that are not limited use stationary RICE	a. Reduce CO emissions, or limit the concentration of CO in the stationary RICE exhaust, and using oxidation catalyst	i. Conducting performance tests every 8,760 hours or 3 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit; and ii. Collecting the catalyst inlet temperature data according to §63.6625(b); and iii. Reducing these data to 4-hour rolling averages; and iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and v. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.
11. Existing stationary CI RICE >500 HP that are not limited use stationary RICE	a. Reduce CO emissions or limit the concentration of CO in the stationary RICE exhaust, and using an oxidation catalyst	i. Conducting performance tests every 8,760 hours or 5 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit; and ii. Collecting the catalyst inlet temperature data according to §63.6625(b); and iii. Reducing these data to 4-hour rolling averages; and iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and v. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.

- b. The permittee must report each instance in which you did not meet each emission limitation or operating limitation in and Tables 2b and 2d of 40 C.F.R. 63 Subpart ZZZZ that apply. These instances are deviations from the emission and operating limitations. These deviations must be reported according to the requirements in 40 C.F.R. § 63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE.
- c. The permittee must also report each instance in which the applicable requirements in Table 8 of 40 C.F.R. 63 Subpart ZZZZ were not met.

**[45CSR34, 40 C.F.R. §§63.6640 (a), (b), and (e)]**

- 8.1.7. The permittee shall comply with all General Provisions which apply according to Table 8 of 40 C.F.R. Part 63 Subpart ZZZZ.  
[45CSR34, 40 C.F.R. § 63.6665]

## 8.2. Monitoring Requirements

- 8.2.1. If you elect to install a CEMS as specified in Table 5 of 40 C.F.R. 63 Subpart ZZZZ, you must install, operate, and maintain a CEMS to monitor CO and either O<sub>2</sub> or CO<sub>2</sub> according to the requirements in paragraphs 40 C.F.R. §§63.6625(a)(1) through (4). If you are meeting a requirement to reduce CO emissions, the CEMS must be installed at both the inlet and outlet of the control device. If you are meeting a requirement to limit the concentration of CO, the CEMS must be installed at the outlet of the control device.
- a. Each CEMS must be installed, operated, and maintained according to the applicable performance specifications of 40 CFR part 60, appendix B.
  - b. You must conduct an initial performance evaluation and an annual relative accuracy test audit (RATA) of each CEMS according to the requirements in §63.8 and according to the applicable performance specifications of 40 CFR part 60, appendix B as well as daily and periodic data quality checks in accordance with 40 CFR part 60, appendix F, procedure 1.
  - c. As specified in §63.8(c)(4)(ii), each CEMS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period. You must have at least two data points, with each representing a different 15-minute period, to have a valid hour of data.
  - d. The CEMS data must be reduced as specified in §63.8(g)(2) and recorded in parts per million or parts per billion (as appropriate for the applicable limitation) at 15 percent oxygen or the equivalent CO<sub>2</sub> concentration.

### [45CSR34, 40 C.F.R. §63.6625(a)]

- 8.2.2. If you are required to install a continuous parameter monitoring system (CPMS) as specified in Table 5 of 40 C.F.R. 63 Subpart ZZZZ, you must install, operate, and maintain each CPMS according to the requirements in 40 C.F.R. §§63.6625(b)(1) through (6). For an affected source that is complying with the emission limitations and operating limitations on March 9, 2011, the requirements in 40 C.F.R. §63.6625(b) are applicable September 6, 2011.
- a. You must prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in 40 C.F.R. §§63.6625(b)(1)(i) through (v) and in §63.8(d). As specified in §63.8(f)(4), you may request approval of monitoring system quality assurance and quality control procedures alternative to those specified in 40 C.F.R. §§63.6625(b)(1) through (5) in your site-specific monitoring plan.
    - i. The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations;
    - ii. Sampling interface (e.g., thermocouple) location such that the monitoring system will provide representative measurements;
    - iii. Equipment performance evaluations, system accuracy audits, or other audit procedures;

- iv. Ongoing operation and maintenance procedures in accordance with provisions in §63.8(c)(1)(ii) and (c)(3); and
  - v. Ongoing reporting and recordkeeping procedures in accordance with provisions in §63.10(c), (e)(1), and (e)(2)(i).
- b. You must install, operate, and maintain each CPMS in continuous operation according to the procedures in your site-specific monitoring plan.
  - c. The CPMS must collect data at least once every 15 minutes (see also §63.6635).
  - d. For a CPMS for measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit) or 1 percent of the measurement range, whichever is larger.
  - e. You must conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in your site-specific monitoring plan at least annually.
  - f. You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

**[45CSR34, 40 C.F.R. §63.6625 (b)]**

- 8.2.3. If you own or operate an existing non-emergency, non-black start CI engine greater than or equal to 300 HP that is not equipped with a closed crankcase ventilation system, you must comply with either 40 C.F.R. §63.6625(g)(1) or 40 C.F.R. §63.6625(g)(2). Owners and operators must follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters, or can request the Administrator to approve different maintenance requirements that are as protective as manufacturer requirements.
- a. Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or
  - b. Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates and metals.

**[45CSR34, 40 C.F.R. §63.6625 (g)]**

- 8.2.4. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to 40 C.F.R. 63 Subpart ZZZZ apply.

**[45CSR34, 40 C.F.R. §63.6625 (h)]**

- 8.2.5. If the permittee must comply with emission and operating limitations, you must monitor and collect data according to the following:
- a. Except for monitor malfunctions, associated repairs, required performance evaluations and required quality assurance or control activities, you must monitor continuously at all times that the stationary RICE is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable

failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

- b. You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. You must, however, use all the valid data collected during all other periods.

**[45CSR34, 40 C.F.R. §63.6635]**

### 8.3. Testing Requirements

8.3.1. If you own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing stationary RICE located at an area source of HAP emissions you are subject to the requirements of 40 C.F.R. §63.6612.

- a. You must conduct any initial performance test or other initial compliance demonstration according to Tables 4 and 5 to 40 C.F.R. 63 Subpart ZZZZ that apply to you within 180 days after the compliance date that is specified for your stationary RICE in §63.6595 and according to the provisions in §63.7(a)(2).
- b. An owner or operator is not required to conduct an initial performance test on a unit for which a performance test has been previously conducted, but the test must meet all of the conditions described in paragraphs (b)(1) through (4) of this section.
  - i. The test must have been conducted using the same methods specified in this subpart, and these methods must have been followed correctly.
  - ii. The test must not be older than 2 years.
  - iii. The test must be reviewed and accepted by the Administrator.
  - iv. Either no process or equipment changes must have been made since the test was performed, or the owner or operator must be able to demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite process or equipment changes

**[45CSR34, 40 C.F.R. §63.6612]**

8.3.2. If you must comply with the emission limitations and operating limitations, you must conduct subsequent performance tests as specified in Table 3 of 40 C.F.R. 63 Subpart ZZZZ.

For each . . .	Complying with the requirement to...	You must . . .
4. Existing non-emergency, non-black start CI stationary RICE >500 HP that are not limited use stationary RICE	Limit or reduce CO emissions and not using a CEMS	Conduct subsequent performance tests every 8,760 hours or 3 years, whichever comes first.

**[45CSR34, 40 C.F.R. §63.6615, Table 3 of 40 C.F.R. 63 Subpart ZZZZ]**

8.3.3. The permittee must conduct each performance test in Tables 3 and 4 of 40 C.F.R. 63 Subpart ZZZZ that applies to you.

**[45CSR34, 40 C.F.R. §63.6620(a)]**

8.3.4. Each performance test must be conducted according to the requirements that this subpart specifies in Table 4 to 40 C.F.R. 63 Subpart ZZZZ. If you own or operate a non-operational stationary RICE that is subject to performance testing, you do not need to start up the engine solely to conduct the performance test. Owners and operators of a non-operational engine can conduct the performance test when the engine is started up again.

**[45CSR34, 40 C.F.R. §63.6620(b)]**

8.3.5. You must conduct three separate test runs for each performance test required in this section, as specified in §63.7(e)(3). Each test run must last at least 1 hour, unless otherwise specified in 40 C.F.R.63 Subpart ZZZZ.

**[45CSR34, 40 C.F.R. §63.6620(d)]**

8.3.6. The permittee must use the following equations when determining compliance:

a. You must use Equation 1 of this section to determine compliance with the percent reduction requirement.

$$\frac{C_i - C_o}{C_i} \times 100 = R \quad (\text{Eq. 1})$$

Where:

$C_i$  = concentration of carbon monoxide (CO), total hydrocarbons (THC), or formaldehyde at the control device inlet,

$C_o$  = concentration of CO, THC, or formaldehyde at the control device outlet, and

$R$  = percent reduction of CO, THC, or formaldehyde emissions.

b. You must normalize the CO, THC, or formaldehyde concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen, or an equivalent percent carbon dioxide ( $\text{CO}_2$ ). If pollutant concentrations are to be corrected to 15 percent oxygen and  $\text{CO}_2$  concentration is measured in lieu of oxygen concentration measurement, a  $\text{CO}_2$  correction factor is needed. Calculate the  $\text{CO}_2$  correction factor as described in 40 C.F.R. §§63.6620(e)(2)(i) through (iii).

i. Calculate the fuel-specific  $F_o$  value for the fuel burned during the test using values obtained from Method 19, Section 5.2, and the following equation:

$$F_o = \frac{0.209F_d}{F_c} \quad (\text{Eq. 2})$$

Where:

$F_o$  = Fuel factor based on the ratio of oxygen volume to the ultimate  $\text{CO}_2$  volume produced by the fuel at zero percent excess air.

0.209 = Fraction of air that is oxygen, percent/100.

$F_d$  = Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19,  $\text{dsm}^3/\text{J}$  ( $\text{dscf}/10^6 \text{ Btu}$ ).

$F_c$  = Ratio of the volume of  $\text{CO}_2$  produced to the gross calorific value of the fuel from Method 19,  $\text{dsm}^3/\text{J}$  ( $\text{dscf}/10^6 \text{ Btu}$ )

- ii. Calculate the CO<sub>2</sub> correction factor for correcting measurement data to 15 percent O<sub>2</sub>, as follows:

$$X_{CO_2} = \frac{5.9}{F_o} \quad (\text{Eq. 3})$$

Where:

X<sub>CO<sub>2</sub></sub> = CO<sub>2</sub> correction factor, percent.

5.9 = 20.9 percent O<sub>2</sub>—15 percent O<sub>2</sub>, the defined O<sub>2</sub> correction value, percent.

- iii. Calculate the CO, THC, and formaldehyde gas concentrations adjusted to 15 percent O<sub>2</sub> using CO<sub>2</sub> as follows:

$$C_{adj} = C_d \frac{X_{CO_2}}{\%CO_2} \quad (\text{Eq. 4})$$

Where:

C<sub>adj</sub> = Calculated concentration of CO, THC, or formaldehyde adjusted to 15 percent O<sub>2</sub>.

C<sub>d</sub> = Measured concentration of CO, THC, or formaldehyde, uncorrected.

X<sub>CO<sub>2</sub></sub> = CO<sub>2</sub> correction factor, percent.

%CO<sub>2</sub> = Measured CO<sub>2</sub> concentration measured, dry basis, percent.

**[45CSR34, 40 C.F.R. §63.6620(e)]**

- 8.3.7. If you comply with the emission limitation to reduce CO and you are not using an oxidation catalyst, if you comply with the emission limitation to reduce formaldehyde and you are not using NSCR, or if you comply with the emission limitation to limit the concentration of formaldehyde in the stationary RICE exhaust and you are not using an oxidation catalyst or NSCR, you must petition the Administrator for operating limitations to be established during the initial performance test and continuously monitored thereafter; or for approval of no operating limitations. You must not conduct the initial performance test until after the petition has been approved by the Administrator.

**[45CSR34, 40 C.F.R. §63.6620(f)]**

- 8.3.8. If you petition the Administrator for approval of operating limitations, your petition must include the information described in 40 C.F.R. §§63.6620(g)(1) through (5).
- Identification of the specific parameters you propose to use as operating limitations;
  - A discussion of the relationship between these parameters and HAP emissions, identifying how HAP emissions change with changes in these parameters, and how limitations on these parameters will serve to limit HAP emissions;
  - A discussion of how you will establish the upper and/or lower values for these parameters which will establish the limits on these parameters in the operating limitations;

- d. A discussion identifying the methods you will use to measure and the instruments you will use to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments; and
- e. A discussion identifying the frequency and methods for recalibrating the instruments you will use for monitoring these parameters.

**[45CSR34, 40 C.F.R. §63.6620(g)]**

8.3.9. If you petition the Administrator for approval of no operating limitations, your petition must include the information described in 40 C.F.R. §§63.6620(h)(1) through (7).

- a. Identification of the parameters associated with operation of the stationary RICE and any emission control device which could change intentionally (e.g., operator adjustment, automatic controller adjustment, etc.) or unintentionally (e.g., wear and tear, error, etc.) on a routine basis or over time;
- b. A discussion of the relationship, if any, between changes in the parameters and changes in HAP emissions;
- c. For the parameters which could change in such a way as to increase HAP emissions, a discussion of whether establishing limitations on the parameters would serve to limit HAP emissions;
- d. For the parameters which could change in such a way as to increase HAP emissions, a discussion of how you could establish upper and/or lower values for the parameters which would establish limits on the parameters in operating limitations;
- e. For the parameters, a discussion identifying the methods you could use to measure them and the instruments you could use to monitor them, as well as the relative accuracy and precision of the methods and instruments;
- f. For the parameters, a discussion identifying the frequency and methods for recalibrating the instruments you could use to monitor them; and
- g. A discussion of why, from your point of view, it is infeasible or unreasonable to adopt the parameters as operating limitations.

**[45CSR34, 40 C.F.R. §63.6620(h)]**

8.3.10. The engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status. The following information must be included in the written report: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accurate in percentage of true value must be provided.

**[45CSR34, 40 C.F.R. §63.6620(i)]**

8.3.11. During the initial performance test, you must establish each operating limitation in Tables 2b of 40 C.F.R. 63 Subpart ZZZZ that applies to you.

**[45CSR34, 40 C.F.R. §63.6630(b)]**

#### **8.4. Recordkeeping Requirements**

- 8.4.1. If the permittee must comply with the emission and operating limitations, the permittee must keep the following records:
- a. A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status submitted, according to the requirement in 40 C.F.R. §63.10(b)(2)(xiv).
  - b. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.
  - c. Records of performance tests and performance evaluations as required in 40 C.F.R. §63.10(b)(2)(viii).
  - d. Records of all required maintenance performed on the air pollution control and monitoring equipment.
  - e. Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 C.F.R. §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

**[45CSR34, 40 C.F.R. §63.6655(a)]**

- 8.4.2. For each CEMS or CPMS, you must keep the records listed in 40 C.F.R. §§63.6655(b)(1) through (3).
- a. Records described in 40 C.F.R. §§ 63.10 (b) (2) (vi) through (xi).
  - b. Previous (i.e., superseded) versions of the performance evaluation plan as required in 40 C.F.R. §63.8(d)(3).
  - c. Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in 40 C.F.R. §63.8(f)(6)(i), if applicable.

**[45CSR34, 40 C.F.R. §63.6655(b)]**

- 8.4.3. You must keep the records required in Table 6 of 40 C.F.R. Part 63 Subpart ZZZZ to show continuous compliance with each emission or operating limitation that applies to you.

**[40CSR34, 40 C.F.R. § 63.6655 (d)]**

#### **8.5. Reporting Requirements**

- 8.5.1. You must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.6645.  
**[45CSR34, 40 C.F.R. §63.6630(c)]**
- 8.5.2. You must submit all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified if you own or operate an existing stationary RICE located at an area source of HAP emissions.  
**[45CSR34, 40 C.F.R. §63.6645(a)(2)]**

- 8.5.3. If you are required to conduct a performance test, you must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in §63.7(b)(1).  
**[45CSR34, 40 C.F.R. §63.6645(g)]**
- 8.5.4. If you are required to conduct a performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart, you must submit a Notification of Compliance Status according to §63.9(h)(2)(ii).
- a. For each initial compliance demonstration required in Table 5 to 40 C.F.R. 63 Subpart ZZZZ that does not include a performance test, you must submit the Notification of Compliance Status before the close of business on the 30th day following the completion of the initial compliance demonstration.
- b. For each initial compliance demonstration required in Table 5 to 40 C.F.R. 63 Subpart ZZZZ that includes a performance test conducted according to the requirements in Table 3 to 40 C.F.R. 63 Subpart ZZZZ, you must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th day following the completion of the performance test according to §63.10(d)(2).
- [45CSR34, 40 C.F.R. §63.6645(h)]**
- 8.5.5. You must submit each report in Table 7 of 40 C.F.R. 63 Subpart ZZZZ that applies to you.  
**[45CSR34, 40 C.F.R. §63.6650(a)]**
- 8.5.6. Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 7 of this subpart and according to the requirements in 40 C.F.R. §§63.6650(b)(1) through (b)(9).
- a. For semiannual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.6595.
- b. For semiannual Compliance reports, the first Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in §63.6595.
- c. For semiannual Compliance reports, each subsequent Compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.
- d. For semiannual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.
- e. For each stationary RICE that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6 (a)(3)(iii)(A), you may submit the first and subsequent Compliance

reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (b)(4) of this section.

- f. For annual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on December 31.
- g. For annual Compliance reports, the first Compliance report must be postmarked or delivered no later than January 31 following the end of the first calendar year after the compliance date that is specified for your affected source in §63.6595.
- h. For annual Compliance reports, each subsequent Compliance report must cover the annual reporting period from January 1 through December 31.
- i. For annual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than January 31.

**[45CSR34, 40 C.F.R. §63.6650(b)]**

8.5.7. The Compliance report must contain the following information:

- a. Company name and address.
- b. Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
- c. Date of report and beginning and ending dates of the reporting period.
- d. If you had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with §63.6605(b), including actions taken to correct a malfunction.
- e. If there are no deviations from any emission or operating limitations that apply to you, a statement that there were no deviations from the emission or operating limitations during the reporting period.
- f. If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.

**[45CSR34, 40 C.F.R. §63.6650(c)]**

8.5.8. For each deviation from an emission or operating limitation that occurs for a stationary RICE where you are not using a CMS to comply with the emission or operating limitations in this subpart, the Compliance report must contain the information in 40 C.F.R. §§63.6650(c)(1) through (4) and the information in 40 C.F.R. §§63.6650(d)(1) and (2).

- a. The total operating time of the stationary RICE at which the deviation occurred during the reporting period.
- b. Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

**[45CSR34, 40 C.F.R. §63.6650(d)]**

- 8.5.9. For each deviation from an emission or operating limitation occurring for a stationary RICE where you are using a CMS to comply with the emission and operating limitations in this subpart, you must include information in 40 C.F.R. §§63.6650(c)(1) through (4) and (e)(1) through (12).
- a. The date and time that each malfunction started and stopped.
  - b. The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks.
  - c. The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8).
  - d. The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.
  - e. A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.
  - f. A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.
  - g. A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period.
  - h. An identification of each parameter and pollutant (CO or formaldehyde) that was monitored at the stationary RICE.
  - i. A brief description of the stationary RICE.
  - j. A brief description of the CMS.
  - k. The date of the latest CMS certification or audit.
  - l. A description of any changes in CMS, processes, or controls since the last reporting period.

**[45CSR34, 40 C.F.R. §63.6650(e)]**

- 8.5.10. Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR §70.6(a)(3)(iii)(A) or 40 CFR §71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR §70.6(a)(3)(iii)(A) or 40 CFR §71.6(a)(3)(iii)(A), and the Compliance report includes all required

information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority. [45CSR34, 40 C.F.R. §63.6650(f)]

## **8.6. Compliance Plan**

8.6.1. None.

**ATTACHMENT A**

**DAILY/MONTHLY ROCK CRUSHING AND SCREENING OPERATIONS PROCESSING RATE <sup>1,2</sup>**

**Lackawanna Transport Company  
 dba Wetzel County Sanitary Landfill  
 Plant ID No.: 103-00034**

Month: \_\_\_\_\_ Year: \_\_\_\_\_

Date	Daily Tons Processed (TPD)	Hours of Operation (hr/day)	Hourly Processing Rate <sup>3</sup> (TPH)	Date	Daily Tons Processed (TPD)	Hours of Operation (hr/day)	Hourly Processing Rate <sup>3</sup> (TPH)
1				17			
2				18			
3				19			
4				20			
5				21			
6				22			
7				23			
8				24			
9				25			
10				26			
11				27			
12				28			
13				29			
14				30			
15				31			
16							
<b>MONTHLY TOTAL</b>							

- <sup>1</sup> Upon the request of the Director or his/her authorized representatives the CERTIFICATION OF DATA ACCURACY statement appearing on the reverse side of this form must be completed.
- <sup>2</sup> This record shall be maintained on site for a period of not less than five (5) years. Certified copies shall be made available, upon request, to the Director or his/her authorized representative.
- <sup>3</sup> Hourly processing rates (TPH) shall be determined by dividing the Daily Tons Crushed (TPD) by the Hours of Operation (hours per day) and shall not exceed 200 TPH.

**ATTACHMENT B**

**ANNUAL ROCK CRUSHING AND SCREENING OPERATIONS  
PROCESSING RATE <sup>1,2</sup>**

**Lackawanna Transport Company  
dba Wetzel County Sanitary Landfill  
Plant ID No.: 103-00034**

**Year:** \_\_\_\_\_

<b>MONTH</b>	<b>Monthly Tons Processed (TPM)</b>
January	
February	
March	
April	
May	
June	
July	
August	
September	
October	
November	
December	
<b>TOTAL</b>	
<b>PERMIT LIMIT</b>	<b>300,000 tons</b>

<sup>1</sup> Upon the request of the Director or his/her authorized representatives the CERTIFICATION OF DATA ACCURACY statement appearing on the reverse side of this form must be completed.

<sup>2</sup> This record shall be maintained on site for a period of not less than five (5) years. Certified copies shall be made available, upon request, to the Director or his/her authorized representative.

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**ATTACHMENT C**

**CERTIFICATION OF DATA ACCURACY**

I, the undersigned, hereby certify that all information contained in the attached \_\_\_\_\_, representing the period beginning \_\_\_\_\_ and ending \_\_\_\_\_, and any supporting documents appended hereto, is true and correct to the best of my knowledge and that all reasonable efforts have been made to provide the most comprehensive information possible.

Name (Type or Print): \_\_\_\_\_

Signature <sup>1</sup>: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

Fax No.: \_\_\_\_\_

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<sup>1</sup> This form shall be signed by a “Responsible Official.” “Responsible Official” means one of the following:

- I. For a corporation: the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either (i) the facilities employ more than 250 persons or have a gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars), or (ii) the delegation of authority to such representative is approved by the Chief;
- II. For a partnership or sole proprietorship; a general partner or the proprietor, respectively;
- III. For a municipality, State, Federal, or other public entity: either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of U.S. EPA); or

The designated representative delegated with such authority and approved in advance by the Chief.