



MAJOR SOURCE OPERATING PERMIT

PERMITTEE: SHELBY COUNTY COMMISSION

FACILITY NAME: SHELBY COUNTY LANDFILL HIGHWAY 70

FACILITY/PERMIT NO.: 411-0068

LOCATION: COLUMBIANA, ALABAMA

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§ 22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§ 22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

Issuance Date:

Effective Date:

Expiration Date:

Alabama Department of Environmental Management

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General Permit Provisos

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<p>1. <u>Transfer</u></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-16-.13(1)(a)5.</p>	Rule 335-3-16-.02(6)
<p>2. <u>Renewals</u></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.</p> <p>The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p>	Rule 335-3-16-.12(2)
<p>3. <u>Severability Clause</u></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p>	Rule 335-3-16-.05(e)
<p>4. <u>Compliance</u></p> <p>(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.</p> <p>(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.</p>	Rule 335-3-16-.05(f) Rule 335-3-16-.05(g)
<p>5. <u>Termination for Cause</u></p> <p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit</p>	Rule 335-3-16-.05(h)

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<p>modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p>	
<p>6. <u>Property Rights</u></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p>	Rule 335-3-16-.05(i)
<p>7. <u>Submission of Information</u></p> <p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.</p>	Rule 335-3-16-.05(j)
<p>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></p> <p>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 this permit.</p>	Rule 335-3-16-.05(k)
<p>9. <u>Certification of Truth, Accuracy, and Completeness:</u></p> <p>Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p>	Rule 335-3-16-.07(a)
<p>10. <u>Inspection and Entry</u></p> <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:</p> <p>(a) Enter upon the permittee’s premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit;</p>	Rule 335-3-16-.07(b)

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<ul style="list-style-type: none"> (b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit; (c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit; (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements. 	
<p>11. <u>Compliance Provisions</u></p> <ul style="list-style-type: none"> (a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance. (b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit. 	Rule 335-3-16-.07(c)
<p>12. <u>Compliance Certification</u></p> <p>A compliance certification shall be submitted annually within 60 days of the anniversary date of issuance of this permit, or within an alternative timeline approved by the Director..</p> <ul style="list-style-type: none"> (a) The compliance certification shall include the following: <ul style="list-style-type: none"> (1) The identification of each term or condition of this permit that is the basis of the certification; (2) The compliance status; (3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements); (4) Whether compliance has been continuous or intermittent; (5) Such other facts as the Department may require to determine the compliance status of the source; (b) The compliance certification shall be submitted to the Air and EPCRA Enforcement Branch at EPA, Region IV through the Compliance and Emissions Data Reporting Interface (CEDRI) 	Rule 335-3-16-.07(e)

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<p>located on EPA's Central Data Exchange (CDX), and should also be mailed to the Alabama Department of Environmental Management's Air Division at P.O. Box 301463, Montgomery, AL 36130-1463.</p>	
<p>13. <u>Reopening for Cause</u></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <p>(a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee 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 this permit is due to expire.</p> <p>(b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.</p> <p>(c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.</p> <p>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	<p>Rule 335-3-16-.13(5)</p>
<p>14. <u>Additional Rules and Regulations</u></p> <p>This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p>15. <u>Equipment Maintenance or Breakdown</u></p> <p>(a) In the case of shutdown for more than one (1) hour of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to</p>	<p>Rule 335-3-1-.07(1), (2)</p>

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<p>the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:</p> <ol style="list-style-type: none"> (1) Identification of the specific facility to be taken out of service as well as its location and permit number; (2) The expected length of time that the air pollution control equipment will be out of service; (3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period; (4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; (5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period. <p>(b) In the event that there is a breakdown of equipment or upset of process for a period exceeding one (1) hour in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.</p> <p>16. <u>Operation of Capture and Control Devices</u></p> <p>All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.</p> <p>17. <u>Obnoxious Odors</u></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p> <p>Rule 335-3-1-.08</p>

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<p>Management that these measures are technically and economically feasible.</p>	
<p>18. <u>Fugitive Dust</u></p> <p>Reasonable precautions to prevent fugitive dust shall be taken so that provisions of the Department's rules and regulations shall not be violated.</p>	<p>Rule 335-3-4-.02</p>
<p>19. <u>Additions and Revisions</u></p> <p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	<p>Rule 335-3-16-.13 and .14</p>
<p>20. <u>Recordkeeping Requirements</u></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <ol style="list-style-type: none"> (1) The date, place, and time of all sampling or measurements; (2) The date analyses were performed; (3) The company or entity that performed the analyses; (4) The analytical techniques or methods used; (5) The results of all analyses; and (6) The operating conditions that existed at the time of sampling or measurement. <p>(b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. 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. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable.</p>	<p>Rule 335-3-16-.05(c)2</p>
<p>21. <u>Reporting Requirements</u></p> <p>(a) Reports to the Department of any required monitoring shall be submitted at least every 6 months. The reports shall be submitted within 30 days following the end of the six month period. All</p>	<p>Rule 335-3-16-.05(c)3</p>

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<p>instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9).</p> <p>(b) Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.</p> <p>22. <u>Emission Testing Requirements</u></p> <p>Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised. As allowed in MACT and other regulations, flexibility is provided to use alternative test methods, as approved by EPA, ADEM or permit condition.</p> <p>The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department’s air pollution control rules and regulations.</p> <p>To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:</p> <p>(1) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.</p> <p>(2) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning).</p> <p>(3) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.</p> <p>(4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.</p>	<p>Rule 335-3-1-.05(3) and Rule 335-3-1-.04(1)</p> <p>Rule 335-3-1-.04</p>

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<p>A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.</p> <p>All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division or an alternative time is specified by an applicable regulation.</p>	Rule 335-3-1-.04
<p>23. <u>Payment of Emission Fees</u></p> <p>Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code R. 335-1-7-.04.</p>	Rule 335-1-7-.04
<p>24. <u>Other Reporting and Testing Requirements</u></p> <p>Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.</p>	Rule 335-3-1-.04(1)
<p>25. <u>Title VI Requirements (Refrigerants)</u></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.</p> <p>The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.</p>	40 CFR Part 82
<p>26. <u>Chemical Accidental Prevention Provisions</u></p> <p>If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:</p>	40 CFR Part 68

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<p>(a) The owner or operator shall comply with the provisions in 40 CFR Part 68.</p> <p>(b) The owner or operator shall submit one of the following:</p> <p style="padding-left: 40px;">(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68.10(a) or,</p> <p style="padding-left: 40px;">(2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.</p>	
<p>27. <u>Display of Permit</u></p> <p>This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will be made readily available for inspection by any or all persons who may request to see it.</p>	Rule 335-3-14-.01(1)(d)
<p>28. <u>Circumvention</u></p> <p>No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.</p>	Rule 335-3-1-.10
<p>29. <u>Visible Emissions</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.</p>	Rule 335-3-4-.01(1)
<p>30. <u>Fuel-Burning Equipment</u></p> <p>(a) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.03.</p>	Rule 335-3-4-.03

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<p>(b) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Part 335-3-5-.01.</p>	<p>Rule 335-3-5-.01</p>
<p>31. <u>Process Industries – General</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.04.</p>	<p>Rule 335-3-4-.04</p>
<p>32. <u>Averaging Time for Emission Limits</u></p> <p>Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.</p>	<p>Rule 335-3-1-.05</p>
<p>33. Permit Shield</p> <p>A permit shield exists under this operating permit in accordance with ADEM Administrative Code R. 335-3-16-.10 in that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance. The permit shield is based on the accuracy of the information supplied in the application for this permit. Under this shield, it has been determined that requirements listed as non-applicable in such section are not applicable to this source.</p>	<p>Rule 335-3-16-.10</p>

Summary Page for Shelby County Landfill

Permitted Operating
Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
001	Municipal Solid Waste Landfill Gas collection System with Flare	NMOC	N/A	ADEM Admin. Rule R. 335-3-11-.06(78)

Provisos for Landfill

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Regulations

Section 1--Applicability

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| <ol style="list-style-type: none"> 1. This source is subject to New Source Performance Standards 40 CFR 62 Subpart XXX-Standards of Performance for Municipal Solid Waste Landfills That Commenced Construction After July 17, 2014. 2. This source is subject to 40 CFR 63 Subpart AAAA National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfill. 3. This source is subject to the applicable parts of New Source Performance Standards 40 CFR 60 – Subpart A – General Provisos. 4. This source is subject to the applicable parts of National Emission Standards for Hazardous Air Pollutants 40 CFR 63 – Subpart A – General Provisos. | <p>40 CFR 62 Subpart 000</p> <p>ADEM Admin. Rule R. 335-3-11-.06(78)</p> <p>ADEM Admin. Rule R. 335-3-10-.02(1)</p> <p>ADEM Admin. Rule R. 335-3-11-.06(1)</p> |
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Section 2--Emission Standards

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| <ol style="list-style-type: none"> 1. The owner or operator shall collect and control landfill gases in accordance with the requirements in 63.1959(b)(2) beginning no later than March 17, 2024. 2. There shall be no visible emissions from the flare except for periods not to exceed 5 minutes in any consecutive 2 hours. 3. Beginning March 17, 2024 the owner or operator shall operate the collection system so that the methane concentration is less than 500 parts per million (ppm) above background at the surface of the landfill in areas where gas collection is required by 40 CFR 63.1959(b)(2). | <p>ADEM Admin. Rule R. 335-3-11-.06(78)</p> <p>ADEM Admin. Rule R. 335-3-10-.02(1)</p> <p>ADEM Admin. Rule R. 335-3-11-.06(78)</p> |
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Section 3--Compliance and Performance Test Methods and Procedures

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| <ol style="list-style-type: none"> 1. The source with a required collection system shall demonstrate compliance using the procedures specified in 40 CFR 63.1960 including, but not limited to; <ol style="list-style-type: none"> a. For the purposes of determining sufficient density of gas collectors for compliance with 63.1959(b)(2)(ii)(B)(2), the owner or operator must design a system of vertical wells, horizontal collectors, or other collection devices, satisfactory to the Administrator, capable of controlling and extracting gas from all portions of the landfill sufficient to meet all operational and performance standards. | <p>ADEM Admin. Rule R. 335-3-11-.06(78)</p> |
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- b. For the purpose of demonstrating whether the gas collection system flow rate is sufficient to determine compliance, the owner or operator shall measure the gauge pressure in the collection header at each individual well monthly. An alternative timeline for correcting the exceedance may be submitted to the Administrator for approval. If a positive pressure exists, action shall be initiated to correct the exceedance within 5 calendar days, except for the conditions allowed under 63.1958(b).
- i. If negative pressure cannot be achieved without excess air infiltration within 15 days, the owner or operator must conduct a root cause analysis and correct the exceedance as soon as practicable, but no later than 60 days after positive pressure was first measured. The owner or operator must keep records according to 63.1983(e)(3).
 - ii. If corrective actions cannot be fully implemented within 60 days following the positive pressure measurement for which the root cause analysis was required, the owner or operator must also conduct a corrective action analysis and develop an implementation schedule to complete the corrective action(s) as soon as practicable, but no more than 120 days following the positive measurement. The owner or operator must submit the items listed in 63.1981(h)(7) as part of the next semi-annual report. The owner or operator must keep records according to 63.1983(e)(4).
 - iii. If corrective action is expected to take longer than 120 days to complete after the initial exceedance, the owner or operator must submit the root cause analysis, corrective action analysis, and corresponding implementation timeline to the Administrator, according to 63.1981(j). The owner or operator must keep records according to 63.1983(e)(5).
- c. For the purpose of identifying whether excess air infiltration into the landfill is occurring, the owner or operator must monitor each well monthly for temperature. If correction cannot be achieved in 15 days, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial exceedance.
- i. If a landfill gas temperature of less than 145 °F cannot be achieved within 15 days, the owner or operator must conduct a root cause analysis and correct the exceedance as soon as practicable, but no later than 60 days after a

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- temperature exceedance was first measured. The owner or operator must keep records according to 63.1983(e)(3).
- ii. If corrective actions cannot be fully implemented within 60 days following the temperature measurement for which the root cause analysis was required, the owner or operator must also conduct a corrective action analysis and develop an implementation schedule to complete the corrective action(s) as soon as practicable, but no more than 120 days following the measurement of a temperature exceedance. The owner or operator must submit the items listed in 63.1981(h)(7) as part of the next semi-annual report. The owner or operator must keep records according to 63.1983(e)(4).
 - iii. If corrective action is expected to take longer than 120 days to complete after the initial exceedance, the owner or operator must submit the root cause analysis, corrective action analysis, and corresponding implementation timeline to the Administrator, according to 63.1981(h)(7) and (j). The owner or operator must keep records according to 63.1983(e)(5).
 - iv. If a landfill gas temperature measured at either the wellhead or at any point in the well is greater than or equal to 170 °F and the carbon monoxide concentration measured according to the procedures in 63.1961(a)(5)(vi) is greater than or equal to 1,000 ppmv the corrective action(s) for the wellhead temperature standard (145°F) must be completed withing 15 days.
- d. An owner or operator seeking to demonstrate compliance with 63.1959(b)(2)(ii)(B)(4) through the use of a collection system not conforming to the specifications provided in 63.1962 must provide information satisfactory to the administrator as specified in 63.1981(c)(3), demonstrating that off-site migration is being controlled.
 - e. 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 no more than 30-meter intervals for each collection area on a quarterly basis to determine compliance with the methane surface concentration of less than 500 ppm above the background. If any reading is 500 ppm or greater, the location shall be recorded and the actions specified in 63.1960(c)(4)(i) through (v) shall be taken.

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<p>f. Leachate collection risers (LCRs) are required to be operated and monitored in accordance with 40 CFR 63 Subpart AAAA only when connected to the gas collection system. When not connected to the gas collection system the risers must be sealed to prevent emissions to the atmosphere and methane surface concentration kept below the 500 ppm limit. This is according to a written determination from EPA Region 4, dated November 7, 2008.</p>	
<p>2. The visible emissions shall be determined using reference Method 22 of 40 CFR 60 Appendix A.</p>	<p>ADEM Admin. Rule R. 335-3-11-.06(78)</p>
<p><i>Section 4--Emission Monitoring</i></p>	
<p>1. Monitoring of the collection and control system shall comply with the provisions of 40 CFR 63.1961 including, but not limited to:</p>	<p>ADEM Admin. Rule R. 335-3-11-.06(78)</p>
<p>a. The owner or operator shall install a sampling port and thermometer or other temperature measuring device, or access port for temperature measurements at each wellhead and:</p>	<p>ADEM Admin. Rule R. 335-3-11-.06(78)</p>
<p>i. Measure the gauge pressure in the collection header on a monthly basis as provided in 63.1960(a)(3); and</p>	
<p>ii. Monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis as directed in 63.1961(a)(2)(i)-(iii).</p>	
<p>iii. Monitor temperature of the landfill gas on a monthly basis as provided in 63.1960(a)(4)(i).</p>	
<p>iv. Enhanced monitoring must be initiated at each well with a measured landfill gas greater than or equal to 145°F as stated in 63.1961(a)(5)(i)-(ix), unless a higher operating temperature has been approved by the Administrator under 40 CFR 60 subpart WWW, subpart XXX, or Cf, or 40 CFR 63 subpart AAAA.</p>	
<p>v. For each wellhead with a measurement of landfill gas temperature greater than or equal to 165°F, annually monitor temperature of the landfill gas every 10 vertical feet of the well. This temperature can be monitored either with a removable thermometer, or using temporary or permanent thermocouples installed in the well.</p>	
<p>b. The owner or operator shall install, calibrate, maintain, and operate according to the manufacturer's specifications equipment listed in 63.1961(b)(1)-(2).</p>	<p>ADEM Admin. Rule R. 335-3-11-.06(78)</p>
<p>c. To demonstrate compliance with the 500 ppm standard for surface methane concentration in 63.1958(d) the owner or operator shall monitor surface concentrations of methane on a quarterly basis, according to the procedures in 63.1960(c) and the instrument specifications in 63.1960(d).</p>	<p>ADEM Admin. Rule R. 335-3-11-.06(78)</p>

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- d. The owner or operator must maintain and operate all monitoring systems associated with the treatment system in accordance with the site-specific treatment system monitoring plan required by 63.1983(b)(5)(ii) and must calibrate, maintain, and operate according to the manufacturer's specifications a device that records flow to the treatment system and bypass of the treatment system (if applicable). The owner or operator must:
- i. Install, calibrate, and maintain a gas flow rate measuring device that records the flow to the treatment system at least every 15 minutes; and
 - 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 must 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.
- e. The monitoring requirements of 63.1961(a), (b), (c), (d), and (g) apply at all times the affected source is operating, except for periods of monitoring system malfunctions, repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities. Where an owner or operator seeks to demonstrate compliance with the operational standards in 63.1958(c)(1), (d)(2), and (e)(1), the standards apply at all times.

ADEM Admin. Rule
R. 335-3-11-.06(78)

ADEM Admin. Rule
R. 335-3-11-.06(78)

Section 5--Recordkeeping and Reporting Requirements

1. The owner or operator shall maintain on-site records of the design capacity report in which design capacity was first shown to meet or exceed 2.5 million m³ by volume and 2.5 million Mg by mass, current waste in place, and year by year acceptance rate.
2. Each owner or operator required to install and operate a gas collection and control system must submit a collection and control system design plan to the Administrator for approval. The collection and control system design plan must be prepared and approved by a professional engineer and meet the requirements in 63.1981(d)(1)-(6).
3. The owner or operator who has already been required to submit a design plan must submit a revised design plan to the Administrator for approval as follows:
 - a. At least 90 days before expanding operations to an area not covered by the previously approved design plan.
 - b. Prior to installing or expanding the gas collection system in a way that is not consistent with the design plan that was submitted to the Administrator.

ADEM Admin. Rule
R. 335-3-11-.06(78)

ADEM Admin. Rule
R. 335-3-11-.06(78)

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<p>4. The owner or operator must submit information regarding corrective actions according to the below paragraph.</p> <p>a. For corrective action that is required according to 63.1960(a)(3) or (4) and is not completed within 60 days after the initial exceedance, you must submit a notification to the Administrator as soon as practicable but no later than 75 days after the first measurement of positive pressure or temperature exceedance.</p> <p>b. For corrective action that is required according to 63.1960(3) or (4) and is expected to take longer than 120 days after the initial exceedance to complete, you must submit the root cause analysis, corrective action analysis, and corresponding implementation timeline to the Administrator as soon as practicable but no later than 75 days after the first measurement of positive pressure or temperature monitoring value of 145 F or above. The Administrator must approve the plan for corrective action and the corresponding timeline.</p>	<p>ADEM Admin. Rule R. 335-3-11-.06(78)</p>
<p>5. If an owner or operator seeks to demonstrate compliance with the 145°F operational standard for temperature and a landfill gas temperature measured at either the wellhead or at any point in the well is greater than or equal to 170°F and the carbon monoxide concentration measured is greater than or equal to 1,000 ppmv, you must report the date, time, well identifier, temperature, and carbon monoxide reading via e-mail to the Administrator within 24 hours of the measurement unless a higher operating temperature value has been approved by the Administrator for the well under 40 CFR 63 AAAA or under 40 CFR part 60, subpart WWW; 40 CFR part 60, subpart XXX; or a Federal plan or EPA approved and effective state plan or tribal plan that implements either 40 CFR part 60, subpart Cc, or 40 CFR part 60, subpart Cf.</p>	<p>ADEM Admin. Rule R. 335-3-11-.06(78)</p>
<p>6. The owner or operator of a landfill with a required collection and control system shall maintain on-site records of the design capacity report in which design capacity was first shown to meet or exceed 2.5 million m³ by volume and 2.5 million Mg by mass, current waste in place and year by year acceptance rate.</p>	<p>ADEM Admin. Rule R. 335-3-11-.06(78)</p>
<p>7. The owner or operator of a required collection and control system shall maintain all records specified in 63.1983, including but not limited to:</p> <p>a. The maximum expected gas generation flow rate as calculated in 63.1960(a)(1).</p> <p>b. The density of wells, horizontal collectors, surface collectors or other gas extraction determined using the procedures specified in 63.1962(a)(1) and (2).</p> <p>c. For the flare, all visible emission readings, heat content determination, flow rate or bypass flow rate measurements</p>	<p>ADEM Admin. Rule R. 335-3-11-.06(78)</p>

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- made during the performance test, continuous records the flare pilot or flare flame monitoring and records of all periods of operations during which the pilot flame or flare flame is absent.
- d. The owner or operator shall keep for the life of the collection system an up-to-date, readily available plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector as specified in 63.1983(d).
 - e. The owner or operator shall keep for at least 5 years up-to-date and readily accessible records of all collection and control system exceedances of the operational standards, the reading in the subsequent month whether or not that second reading is an exceedance, and the location of each exceedance.
8. Beginning March 17, 2024 the owner or operator must follow the semi-annual reporting requirements in 63.1981(h) including the following information.
- a. Number of times that applicable parameters monitored under 63.1958(b), (c), and (d) were exceeded and when the gas collection and control system was not operating under 63.1958(e). For each instance, report the date, time, and duration of each exceedance.
 - i. Where an owner or operator subject to the provisions of 40 CFR 63 AAAA seeks to demonstrate compliance with the operational standard temperature in 63.1958(c)(1), provide a statement of the wellhead operational standard for temperature and oxygen you are complying with for the period covered by the report. Indicate the number of times each of those parameters monitored under 63.1961(a)(4) were exceeded. For each instance, report the date, time, and duration of each exceedance.
 - ii. Provide the number of times the parameters for the site-specific treatment system in 63.1961(g) were exceeded.
 - b. Description and duration of all periods when the gas stream was diverted from the control device or treatment system in through a bypass line.
 - c. Description and duration of all periods when the control device or treatment system was not operating and length of time the control device or treatment system was not operating.
 - d. All periods when the collection system was not operating.
 - e. The location of each exceedance of the 500-ppm methane concentration as provided in 63.1958(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month. For location,

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335-3-11-.06(78)

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record the latitude and longitude coordinates of each exceedance using an instrument with an accuracy of at least 4 meters. The coordinates must be in decimal degrees with at least five decimal places.

- f. The date of installation and the location of each well or collection system expansion added pursuant to 63.1960(a)(3) and (4), (b), and (c)(4).
- g. For any corrective action analysis for which corrective actions are required in 63.1960(a)(3)(i) or (a)(5) and that take more than 60 days to correct the exceedance, the root cause analysis conducted, including a description of the recommended corrective action(s), the date for corrective action(s) already completed following the positive pressure or high temperature reading, and, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates.
- h. Each owner or operator required to conduct enhanced monitoring in 63.1961(a)(5) and (6) must include the results of all monitoring activities conducted during the period.
 - i. For each monitoring point, report the date, time, and well identifier along with the value and units of measure for oxygen, temperature (wellhead and downwell), methane, and carbon monoxide.
 - ii. Include a summary trend analysis for each well subject to the enhanced monitoring requirements to chart the weekly readings over time for oxygen, wellhead temperature, methane, and weekly or monthly readings over time, as applicable for carbon monoxide.
 - iii. Include the date, time, staff person name, and description of findings for each visual observation for subsurface oxidation event.

Summary Page for Shelby County Landfill

Permitted Operating
 Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
002	Municipal Solid Waste Landfill	Asbestos	N/A	ADEM Admin. Rule R. 335-3-11-.02(12)

Provisos for Landfill

Federally Enforceable Provisos

Regulations

Section 1--Applicability

1. This source is subject to National Emission Standards for Hazardous Air Pollutants 40 CFR 61-Subpart M National Emission Standard for Asbestos.

ADEM Admin. Rule R. 335-3-11-.02(12)

Section 2--Emission Standards

1. Either there shall be no visible emissions to the outside air from any active waste disposal site where asbestos-containing waste material has been deposited, or at the end of each operating day, or at least once 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:
 - a. Be covered with at least 6 inches of compacted nonasbestos-containing material.
 - b. Be covered with a resinous or petroleum-based dust suppression agent that effectively binds dust and controls wind erosion. Other equally effective dust suppression agents may be used upon prior approval by the Director.
 - c. Use an alternative emissions control method that has received prior written approval by the Director according to the procedures described in 40 CFR 61.149(c)(2).

ADEM Admin. Rule R. 335-3-11-.02(12)

Section 3--Recordkeeping and Reporting Requirements

1. For all asbestos-containing waste material received, the owner or operator of the active waste disposal shall:
 - a. Maintain waste shipment records which include the following information:
 - i. Name, address, and telephone number of the waste generator.
 - ii. Name, address, and telephone number of the transporter(s).
 - iii. The quantity of the asbestos-containing waste material in cubic yards.
 - iv. Presence of improperly enclosed or uncovered waste, or any asbestos-containing waste material sealed in leak-tight containers.
 - v. The date of the receipt.

ADEM Admin. Rule R. 335-3-11-.02(12)

Federally Enforceable Provisos**Regulations**

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- b. Within 30 days after receipt of the waste, send a copy of the signed waste shipment record to the waste generator.
 - c. 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 within 15 days. If the discrepancy is unresolved after 15 days, a written report shall be submitted to the local state or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator and for the disposal site.
 - d. Retain a copy of all records and reports required by this proviso for at least 2 years.
 - e. Maintain until closure, records of the location, depth and area, and quantity in cubic yards of asbestos-containing waste material within the disposal site on a map or diagram of the disposal area.
 - f. Upon closure of the facility, submit to the Director a copy of records of asbestos waste disposal locations and quantities.
 - g. Upon request, furnish and make available during normal business hours for inspection by the Director, all records required under 40 CFR 61.154.
 - h. Notify the Director 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 Director 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 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 Director may require changes in the emissions control procedures to be used.
 - iv. Location of any temporary storage site and the final disposal site.

Summary Page for Facility-Wide Fugitive Dust Control

Permitted Operating Schedule:

8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
Fugitive	Fugitive Dust	PM	N/A	ADEM Admin. Code r. 335-3-4-.02

Provisos for Facility-Wide Fugitive Dust Control

Federally Enforceable Provisos	Regulations
<i>Section 1--Applicability</i>	
1. This landfill is subject to the provisions of ADEM Admin. Code r. 335-3-16, "Major Source Operating Permits."	Rule 335-3-16
<i>Section 2--Emission Standards</i>	
1. The permittee shall take reasonable precautions as directed in Section 3--Compliance and Performance Test Methods and Procedures below to prevent fugitive dust at the facility that travel beyond the facility property line and cause a nuisance.	Rule 335-3-4-.02
<i>Section 3—Compliance and Performance Test Methods and Procedures</i>	
1. The permittee shall take reasonable precautions to prevent dust from any operation, process, handling, storage, or transportation activity, including from dust from paved and unpaved roads and landfill areas and grounds in the source permitted herein from becoming airborne. The permittee shall not cause or allow the discharge of visible emissions which travel beyond the property line or the landfill. Airborne fugitive dust emissions shall be prevented and addressed as needed and as appropriate to weather conditions using any or all of the following pre-approved control measures for the following sources of fugitive dust:	Rule 335-3-16-.05
<ul style="list-style-type: none"> a. Plant roads: the application of water and/or paving; b. Active landfill areas: the application of water and compaction c. Closed landfill areas: maintenance of vegetation; and d. Daily cover activities: minimization of drop heights and compaction. 	
2. Specific dust control measures approved to be used as necessary for this landfill include, but are not limited to:	Rule 335-3-16-.05
<ul style="list-style-type: none"> a. Use vegetative cover to minimize fugitive dust from closed landfill cells. b. Landfill roads may be paved to minimize fugitive dust. 	

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- c. Use wet suppression to minimize fugitive dust from roads, active landfill areas and any area or activity observed or expected to cause fugitive dust. Wet suppression shall not be required during natural wet conditions. Wet suppression means using water trucks or any other means of spraying or applying water. Mixing of water with material during handling also constitutes wet suppression.
 - i. The indicator that water application is required is the visual observation of fugitive dust from vehicle traffic and/or act of wind.
 - ii. Wet suppression is effective when the application of water prevents visible fugitive dust from crossing property lines.
 - iii. On a daily log (which may be in the form of a checklist), record the areas to which the water was applied, or if wet suppression was not used on a given day, the reason it was not used.
 - iv. For the semi-annual report, maintain a record of the days when the wet suppression was not able to be used effectively, including the reason it was not used. It is not necessary to list wet days in the report.
- d. Use compaction of daily cover materials and minimize material drop heights for active landfilling operations.
 - i. For the semi-annual report, maintain a record of the date and a brief description of each time when a work practice was not properly performed and the corrective action(s) taken.

Section 4--Emission Monitoring

- 1. The permittee shall conduct weekly visual observations, considering factors such as naturally wet conditions, for fugitive dust in areas with the potential to generate fugitive dust, and if visible emissions traveling beyond the facility property line are observed, any necessary corrective actions shall be initiated within four (4) hours of observation.

Rule 335-3-16-.05

Section 5--Recordkeeping and Reporting Requirements

- 1. The permittee shall maintain a record of all inspections, to include visible observations performed to satisfy the requirements of Proviso 1 of Section 4--Emission Monitoring above as well as logs of daily dust suppression activities and rainfall amounts. This shall include problems observed and corrective actions taken. The records shall be retained for at least five (5) years from the date of generation and shall be available upon request.

Rule 335-3-16-.05

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2. The permittee shall submit a report at least every 6 months, which shall include the monitoring of fugitive dust control measures, during the reporting period. The report shall be submitted within 30 days following the end of the six-month period.

Rule 335-3-16-.05