



# MAJOR SOURCE OPERATING PERMIT

**PERMITTEE:** TALLASSEE WASTE DISPOSAL CENTER INC.

**FACILITY NAME:** STONE'S THROW LANDFILL

**FACILITY/PERMIT NO.:** 205-0015

**LOCATION:** TALLASSEE, 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:** May 9, 2025

**Effective Date:** May 9, 2025

**Expiration Date:** May 8, 2030

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**General Permit Provisos**

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<b>Federally Enforceable Provisos</b>	<b>Regulations</b>	
<p><b>1. <u>Transfer</u></b></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 ADEM Admin. Code r. 335-3-16-.13(1)(a)5.</p>	ADEM Admin. Code r. 335-3-16-.02(6)	
<p><b>2. <u>Renewals</u></b></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>	ADEM Admin. Code r. 335-3-16-.12(2)	
<p><b>3. <u>Severability Clause</u></b></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, subdivisions, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p>	ADEM Admin. Code r. 335-3-16-.05(e)	
<p><b>4. <u>Compliance</u></b></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>	ADEM Admin. Code r. 335-3-16-.05(f)	ADEM Admin. Code r. 335-3-16-.05(g)
<p><b>5. <u>Termination for Cause</u></b></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 modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p>	ADEM Admin. Code r. 335-3-16-.05(h)	

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<p><b>6. <u>Property Rights</u></b></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p>	ADEM Admin. Code r. 335-3-16-.05(i)
<p><b>7. <u>Submission of Information</u></b></p> <p>The permittee must submit to the Air Division, within 30 days or for such other reasonable time as the Air Division may set, any information that the Air Division 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 Air Division copies of records required to be kept by this permit.</p>	ADEM Admin. Code r. 335-3-16-.05(j)
<p><b>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></b></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>	ADEM Admin. Code r. 335-3-16-.05(k)
<p><b>9. <u>Certification of Truth, Accuracy, and Completeness</u></b></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>	ADEM Admin. Code r. 335-3-16-.07(a)
<p><b>10. <u>Inspection and Entry</u></b></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> <ul style="list-style-type: none"><li>(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;</li><li>(b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit;</li><li>(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;</li><li>(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.</li></ul>	ADEM Admin. Code r. 335-3-16-.07(b)

**General Permit Provisos**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<p><b>11. <u>Compliance Provisions</u></b></p> <p>(a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.</p> <p>(b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.</p>	<p>ADEM Admin. Code r. 335-3-16-.07(c)</p>
<p><b>12. <u>Compliance Certification</u></b></p> <p>The permittee shall submit a complete and accurate compliance certification by March 2nd of each year for each annual reporting period of this permit (i.e. January 1<sup>st</sup>-December 31st).</p> <p>(a) The compliance certification shall include the following:</p> <ul style="list-style-type: none"><li>(1) The identification of each term or condition of this permit that is the basis of the certification;</li><li>(2) The compliance status;</li><li>(3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with ADEM Admin. Code r. 335-3-16-.05(c) (Monitoring and Recording Keeping Requirements);</li><li>(4) Whether compliance has been continuous or intermittent;</li><li>(5) Such other facts as the Air Division may require to determine the compliance status of the source;</li></ul> <p>(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) 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>ADEM Admin. Code r. 335-3-16-.07(e)</p>
<p><b>13. <u>Reopening for Cause</u></b></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>ADEM Admin. Code r. 335-3-16-.13(5)</p>

**General Permit Provisos**

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<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><b>14. <u>Additional Rules and Regulations</u></b></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><b>15. <u>Equipment Maintenance or Breakdown</u></b></p> <p>(a) In case of shutdown 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 Air Division at least (24) hours prior to 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"><li>(1) Identification of the specific facility to be taken out of service as well as its location and permit number;</li><li>(2) The expected length of time that the air pollution control equipment will be out of service;</li><li>(3) The nature and quality of emissions of air contaminants likely to occur during the shutdown period;</li><li>(4) Measures such as the use of shift labor and equipment that will be taken to minimize the length of the shutdown period;</li><li>(5) The reasons that it would be impossible or impractical to shut down the sources operation during the maintenance period.</li></ol> <p>(b) In the event that there is a breakdown of equipment or upset of process 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>ADEM Admin. Code r. 335-3-1-.07(1),(2)</p>

**General Permit Provisos**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<p><b>16. <u>Operation of Capture and Control Devices</u></b></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>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p><b>17. <u>Obnoxious Odors</u></b></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 Management that these measures are technically and economically feasible.</p>	<p>ADEM Admin. Code r. 335-3-1-.08</p>
<p><b>18. <u>Fugitive Dust</u></b></p> <p>Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>Plant or haul roads and grounds shall be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:</p> <ul style="list-style-type: none"><li>(a) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;</li><li>(b) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;</li><li>(c) By paving;</li><li>(d) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions.</li></ul> <p>Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Air Division prior to utilization.</p>	<p>ADEM Admin. Code r. 335-3-4-.02</p>
<p><b>19. <u>Additions and Revisions</u></b></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>ADEM Admin. Code r. 335-3-16-.13 and 335-3-16-.14</p>

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<p><b><u>20. Recordkeeping Requirements</u></b></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <ul style="list-style-type: none"><li>(1) The date, place, and time of all sampling or measurements;</li><li>(2) The date analyses were performed;</li><li>(3) The company or entity that performed the analyses;</li><li>(4) The analytical techniques or methods used;</li><li>(5) The results of all analyses; and</li><li>(6) The operating conditions that existed at the time of sampling or measurement.</li></ul> <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.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)2.</p>
<p><b><u>21. Reporting Requirements</u></b></p> <p>(a) Reports to the Air Division of any required monitoring shall be submitted at least every 6 months. All 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 ADEM Admin. Code r. 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 shall include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)3.</p>
<p><b><u>22. Emission Testing Requirements</u></b></p> <p>Each point of emission which requires testing shall 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.</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>ADEM Admin. Code r. 335-3-1-.05(3) and 335-3-1-.04(1)</p>



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<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<p><b>25. <u>Title VI Requirements (Refrigerants)</u></b></p> <p>(a) 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>(b) 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>(c) 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>	<p>ADEM Admin. Code r. 335-3-16-.05(a)</p>
<p><b>26. <u>Chemical Accidental Prevention Provisions</u></b></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> <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>(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 68.10(a) or,</p> <p>(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>40 CFR Part 68</p>
<p><b>27. <u>Display of Permit</u></b></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 shall make the permit readily available for inspection by any or all persons who may request to see it.</p>	<p>ADEM Admin. Code r. 335-3-14-.01(1)(d)</p>
<p><b>28. <u>Circumvention</u></b></p> <p>No person shall cause or permit the installation or use of any device or any means which, without resulting in the 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>	<p>ADEM Admin. Code r. 335-3-1-.10</p>

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<p><b><u>29. Visible Emissions</u></b></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>	<p>ADEM Admin. Code r. 335-3-4-.01(1)</p>
<p><b><u>30. Fuel-Burning Equipment</u></b></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 ADEM Admin. Code r. 335-3-4-.03.</p> <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 ADEM Admin. Code r. 335-3-5-.01.</p>	<p>ADEM Admin. Code r. 335-3-4-.03</p> <p>ADEM Admin. Code r. 335-3-5-.01</p>
<p><b><u>31. Process Industries – General</u></b></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 ADEM Admin. Code r. 335-3-4-.04.</p>	<p>ADEM Admin. Code r. 335-3-4-.04</p>
<p><b><u>32. Averaging Time for Emission Limits</u></b></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>ADEM Admin. Code r. 335-3-1-.05</p>
<p><b><u>33. Open Burning</u></b></p> <p>Precautions should be taken to ensure that no person shall ignite, cause to ignite, permit to be ignited, or maintain any open fire in such a manner as to cause the Department’s rules and regulations applicable to open burning to be violated.</p>	<p>ADEM Admin. Code r. 335-3-3-.01</p>

## Summary Page for Stone's Throw 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. 335-3-10-.02(76)/ ADEM Admin. Rule R. 335-3-11-.06(78)

## Stone's Throw Landfill Provisos

Federally Enforceable Provisos	Regulations
<i>Section 1--Applicability</i>	
1. This source is subject to New Source Performance Standards 40 CFR 60 – Subpart XXX Standards of Performance for Municipal Solid Waste Landfills that Commenced Construction, Reconstruction, or Modification After July 17, 2014.	ADEM Admin. Rule R. 335-3-10-.02(76)
2. This source is subject to 40 CFR 63 Subpart AAAA National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfill.	ADEM Admin. Rule R. 335-3-11-.06(78)
3. This source is subject to the applicable parts of New Source Performance Standards 40 CFR 60 – Subpart A – General Provisos.	ADEM Admin. Rule R. 335-3-10-.02(1)
4. This source is subject to the applicable parts of National Emission Standards for Hazardous Air Pollutants 40 CFR 63 – Subpart A – General Provisos.	ADEM Admin. Rule R. 335-3-11-.06(1)
<i>Section 2--Emission Standards</i>	
1. The owner or operator shall collect and control landfill gases in accordance with the requirements in 40 CFR 63.1959(b)(2).	ADEM Admin. Rule R. 335-3-11-.06(78)
2. There shall be no visible emissions from the flare except for periods not to exceed 5 minutes in any consecutive 2 hours.	ADEM Admin. Rule R. 335-3-11-.06(78)
3. 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).	ADEM Admin. Rule R. 335-3-11-.06(78)
<i>Section 3--Compliance and Performance Test Methods and Procedures</i>	
1. The source with a collection system shall demonstrate compliance using the procedures specified in 40 CFR 63.1960 including, but not limited to;	ADEM Admin. Rule R. 335-3-11-.06(78)
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.	
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).	

**Federally Enforceable Provisos****Regulations**

- 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 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 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).

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- 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. 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.
- e. 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.
- 2. The owner or operator shall conduct an initial performance test of the collection system and flare in accordance with the requirements of 40 CFR 63.7. Prior submissions of such a test report satisfy this requirement if the prior submission is identified and certified as specified in 40 CFR 63.1981.
- 3. The visible emissions shall be determined using reference Method 22 of 40 CFR 60 Appendix A.

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

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

*Section 4--Emission Monitoring*

- 1. Monitoring of the collection and control system shall comply with the provisions of 40 CFR 63.1961 including, but not limited to:
  - 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:
    - i. Measure the gauge pressure in the collection header on a monthly basis as provided in in 63.1960(a)(3); and

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

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- ii. Monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis as directed in 63.1961(a)(2)(i)-(iii).
- iii. Monitor temperature of the landfill gas on a monthly basis as provided in 63.1960(a)(4)(i).
- 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.
- 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.
- 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).
- 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).
- 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

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

times.

*Section 5--Recordkeeping and Reporting Requirements*

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| <ol style="list-style-type: none"> <li>1. 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). Prior submissions of a collection and control system design plan satisfy this requirement if the prior submission is identified and certified as specified in 40 CFR 63.1981.</li> <li>2. 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:             <ol style="list-style-type: none"> <li>a. At least 90 days before expanding operations to an area not covered by the previously approved design plan.</li> <li>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.</li> </ol> </li> <li>3. The owner or operator must submit information regarding corrective actions according to the below paragraphs.             <ol style="list-style-type: none"> <li>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.</li> <li>b. For corrective action that is required according to 63.1960(a)(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.</li> </ol> </li> <li>4. 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</li> </ol> | <p>ADEM Admin. Rule R. 335-3-11-.06(78)</p><br><p>ADEM Admin. Rule R. 335-3-11-.06(78)</p><br><p>ADEM Admin. Rule R. 335-3-11-.06(78)</p><br><p>ADEM Admin. Rule R. 335-3-11-.06(78)</p> |
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Federally Enforceable Provisos	Regulations
CFR part 60, subpart Cf.	
5. 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 m <sup>3</sup> by volume and 2.5 million Mg by mass, current waste in place and year by year acceptance rate.	ADEM Admin. Rule R. 335-3-11-.06(78)
6. The owner or operator of a collection and control system shall maintain all records specified in 63.1983, including but not limited to: <ul style="list-style-type: none"> <li>a. The maximum expected gas generation flow rate as calculated in 63.1960(a)(1).</li> <li>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).</li> <li>c. For the flare, all visible emission readings, heat content determination, flow rate or bypass flow rate measurements 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.</li> <li>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).</li> <li>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.</li> </ul>	ADEM Admin. Rule R. 335-3-11-.06(78)
7. The owner or operator must follow the semi-annual reporting requirements in 63.1981(h) including the following information. <ul style="list-style-type: none"> <li>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. <ul style="list-style-type: none"> <li>i. Where an owner or operator 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.</li> <li>ii. Number of times the parameters for the site-specific treatment system in 63.1961(g) were exceeded.</li> </ul> </li> </ul>	ADEM Admin. Rule R. 335-3-11-.06(78)

- b. Description and duration of all periods when the gas stream was diverted from the control device or treatment system 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. Beginning no later than September 27, 2021, for location, 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 Stone's Throw 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 Asbestos Handling	Asbestos	N/A	ADEM Admin. Rule R. 335-3-11- .02(12)

## Stone's Throw Landfill Provisos

Federally Enforceable Provisos	Regulations
<i>Section 1--Applicability</i>	
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)
<i>Section 2--Emission Standards</i>	
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: <ul style="list-style-type: none"> <li>a. Be covered with at least 6 inches of compacted nonasbestos-containing material.</li> <li>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.</li> <li>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).</li> </ul>	ADEM Admin. Rule R. 335-3-11-.02(12)
<i>Section 3--Recordkeeping and Reporting Requirements</i>	
1. For all asbestos-containing waste material received, the owner or operator of the active waste disposal shall: <ul style="list-style-type: none"> <li>a. Maintain waste shipment records which include the following information:               <ul style="list-style-type: none"> <li>i. Name, address, and telephone number of the waste generator.</li> <li>ii. Name, address, and telephone number of the transporter(s).</li> <li>iii. The quantity of the asbestos-containing waste material in cubic yards.</li> <li>iv. Presence of improperly enclosed or uncovered waste, or any asbestos-containing waste material sealed in leak-tight containers.</li> <li>v. The date of the receipt.</li> </ul> </li> <li>b. Within 30 days after receipt of the waste, send a copy of the signed waste shipment record to the waste generator.</li> <li>c. Upon discovering a discrepancy between the quantity of waste designated on the waste shipment records and the</li> </ul>	ADEM Admin. Rule R. 335-3-11-.02(12)

**Federally Enforceable Provisos****Regulations**

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 of 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
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
a. Use vegetative cover to minimize fugitive dust from closed landfill cells.	
b. Landfill roads may be paved to minimize fugitive dust.	
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.	

**Federally Enforceable Provisos****Regulations**

- ii. Wet suppression is effective when the application of water prevents visible fugitive dust from crossing property lines.
  - iii. Inspect the water truck on each day of use prior to operation and initiate corrective action with 24 hours of the inspection if any condition observed prevents the water truck from being used to apply sufficient water to prevent fugitive dust.
  - iv. On a daily log (which may be in the form of a checklist), record the results of the water truck inspection, the amount of water applied, and the areas to which the water was applied, or if the water truck was not used on a given day, the reason it was not used.
  - v. For the semi-annual report, maintain a record of the days when the water truck was not able to be used effectively for wet suppression, 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. Train employees who participate or supervise daily cover activities in work practices to minimize material drop heights and to attain and maintain adequate compaction to prevent fugitive dust.
  - ii. Maintain records of training in fugitive dust management techniques.
  - iii. 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 listed 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. 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

2. The permittee shall submit a report at least every 6 months, which shall include the monitoring of fugitive dust control

Rule 335-3-16-.05

**Federally Enforceable Provisos****Regulations**

measures, including any days when a water truck was unable to be used effectively for wet suppression and the reason, or a statement that no such events occurred during the reporting period. The report shall be submitted within 30 days following the end of the six month period.