Application Review

Facility Data

Applicant (Facility’s Name): Waste Management of Carolinas, Inc. - Great Oak Landfill

Facility Address:
Waste Management of Carolinas, Inc. - Great Oak Landfill
3597 Old Cedar Falls Road
Randleman, NC 27317

SIC: 4953 / Refuse Systems
NAICS: 562212 / Solid Waste Landfill

Facility Classification: Before: Title V  After: Title V
Fee Classification:  Before: Title V  After: Title V

Permit Applicability (this application only)

SIP: 15A NCAC 02Q .0501(b)(1)
NSPS: N/A
NESHAP: Subpart M
PSD: N/A
PSD Avoidance: N/A
NC Toxics: N/A
112(r): N/A
Other: N/A

Note: Removal of an existing permitted source (RC-01) from the permit.

Contact Data

Facility Contact
Kyle Mertens
Environmental Protection Manager
(321) 403-2544
3597 Old Cedar Falls Rd.
Randleman, NC 27317
kmertens@wm.com

Authorized Contact
Thomas Lewis
Director of Disposal Operations
(716) 983-9511
3597 Old Cedar Falls Rd.
Randleman, NC 27317
tlewis3@wm.com

Technical Contact
Kyle Mertens
Environmental Protection Manager
(321) 403-2544
3597 Old Cedar Falls Rd.
Randleman, NC 27317
kmertens@wm.com

Application Data

Application Number: 7600336.21A
Date Received: 10/21/2021
Application Type: Modification
Application Schedule: TV-Significant
Existing Permit Data
Existing Permit Number: 10446T04
Existing Permit Issue Date: 03/29/2021
Existing Permit Expiration Date: 02/28/2026

Total Actual emissions in TONS/YEAR:

<table>
<thead>
<tr>
<th>CY</th>
<th>SO2</th>
<th>NOX</th>
<th>VOC</th>
<th>CO</th>
<th>PM10</th>
<th>Total HAP</th>
<th>Largest HAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>0.2400</td>
<td>0.8900</td>
<td>4.40</td>
<td>3.79</td>
<td>0.4000</td>
<td>2.67</td>
<td>1.03 [Toluene]</td>
</tr>
<tr>
<td>2019</td>
<td>0.1100</td>
<td>0.3900</td>
<td>4.56</td>
<td>1.67</td>
<td>0.1700</td>
<td>1.65</td>
<td>0.6341 [Toluene]</td>
</tr>
<tr>
<td>2018</td>
<td>---</td>
<td>---</td>
<td>2.27</td>
<td>---</td>
<td>---</td>
<td>0.6797</td>
<td>0.2613 [Toluene]</td>
</tr>
</tbody>
</table>

Consultant: SCS Engineers  []  Contact: David Greene  []  Phone: 828.285.8951  []  email: dgreene@scsengineers.com

Review Engineer: Booker T. Pullen
Review Engineer’s Signature:  Date: XXXX xx, 2022

Comments / Recommendations:
Issue: 10446T05
Permit Issue Date: XX/XX/2022
Permit Expiration Date: 02/28/2026

...
1. **Purpose of Application**

Waste Management of Carolinas, Inc. - Great Oak Landfill (hereafter referred to as Great Oak Landfill) is an active municipal solid waste (MSW) landfill, located in Randleman, Randolph County, North Carolina. The facility operates under Title V Permit No. 10446T0 with an expiration date of February 28, 2026. Great Oak Landfill submitted permit application No. 7600336.21A for the removal of the rock crusher (RD-01) and any associated permit conditions from the Title V permit.

Application 7600336.21A was received on October 21, 2021 and considered complete on that date. This application will be processed as a Significant Modification and is required to go through a 30-day public comment period via the DAQ website and a 45-day EPA review period prior to issuance.

2. **Facility Description**

Great Oak Landfill is located on a 667-acre parcel owned by Randolph County and is operated by Waste Management of Carolinas, Inc (Waste Management). The initial solid waste permit-to-construct (Permit No. 7607) was issued to the landfill in 2016. The landfill began accepting waste on January 9, 2017. The total landfill will be comprised of cells, numbered 1A, 1B, 2, 3, 4, 5, 6 and 7. Only cells 3a, 3b, 4, and 5 are currently accepting waste. This facility operates a "voluntary" landfill gas collection system with a candlestick flare. The gas is currently flared on-site only.

This landfill accepts both municipal solid waste and some asbestos-containing wastes that are deposited in specific areas of the landfill. According to a previous inspection report, the facility does not accept any improperly enclosed asbestos material. For the 2020 year, the landfill received 174.30 tons of asbestos material waste.

3. **Permitting History**

<table>
<thead>
<tr>
<th>Revision No.</th>
<th>Issue Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T00</td>
<td>March 1, 2016</td>
<td>Greenfield permit, 1st Time Title V at the request of the applicant</td>
</tr>
<tr>
<td>T01</td>
<td>March 17, 2016</td>
<td>Administrative amendment to change regulatory citation 15A NCAC .0525 (repealed 7/1/1996) to 15A NCAC 02D .1110.</td>
</tr>
<tr>
<td>T02</td>
<td>April 24, 2018</td>
<td>Administrative amendment to incorporate the recently promulgated NSPS XXX regulations into the permit because the facility modified the landfill site after the compliance date of July 7, 2014.</td>
</tr>
<tr>
<td>T03</td>
<td>April 28, 2020</td>
<td>Revised the permit for the installation of a voluntary gas collection system with flare and the addition of a portable rock crusher that was already on site (but not permitted). NOTE: the motor was exempt because of the nonroad mobile status, but crusher emissions were greater than 5 tpy.</td>
</tr>
<tr>
<td>T04</td>
<td>March 29, 2021</td>
<td>Permit renewal.</td>
</tr>
<tr>
<td>T05</td>
<td>June xx, 2022</td>
<td>Significant Modification issued.</td>
</tr>
</tbody>
</table>

4. **Application Chronology**

- **October 22, 2021**: Complete application received by the Raleigh Central Office for the removal of the portable rock crusher (WS-01).
- **March 30, 2022**: DAQ/RCO sent draft permit and engineering review to Stationary Source Compliance, Winston Salem Regional Office for comment. Neither the Regional Office nor Stationary Source Compliance had comments.
- **March 31, 2022**: DAQ/RCO sent draft permit to applicant for review and comment. No comments received.
- **April 12, 2022**: TVEE approved in IBEAM.
April xx, 2022  
Permit notice published. 30-day public notice and comment period begins, and 45-day EPA comment period begins.

May xx, 2022  
30-day public notice and comment period ends.

June xx, 2022  
45-day EPA comment period ends.

June xx, 2022  
Permit No. 10446T05 signed.

5. **Table of Changes to Existing Permit No. 10446T04**

The following changes were made to existing Title V air permit No. 10446T04*

<table>
<thead>
<tr>
<th>Page No.</th>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cover Page</td>
<td>Cover Page</td>
<td>Updated letterhead&lt;br&gt;Updated Permit revision numbers and dates throughout&lt;br&gt;Updated PSD increment tracking statement</td>
</tr>
<tr>
<td>Cover Page</td>
<td>Cover Page</td>
<td>Added page containing “Notice Regarding The Right to Contest A Division Of Air Quality Permit”</td>
</tr>
<tr>
<td>Cover Page</td>
<td>Cover Page</td>
<td>Revised the Summary Of “Changes To The Permits” table.</td>
</tr>
<tr>
<td>Page 1 of Permit</td>
<td>Body of Permit</td>
<td>Changed Permit number&lt;br&gt;Corrected the page numbers of the permit&lt;br&gt;Changed “Replaces Permit” number&lt;br&gt;Revised effective date of Permit&lt;br&gt;Revised application number&lt;br&gt;Revised complete application date</td>
</tr>
<tr>
<td>Page 2 of permit</td>
<td>Table of Contents</td>
<td>Revised Table of Contents.</td>
</tr>
<tr>
<td>Page 3 of permit</td>
<td>List of Acronyms</td>
<td>List of acronyms relocated to this Section of the Permit.</td>
</tr>
<tr>
<td>Page 4 of permit</td>
<td>Permitted Sources Table</td>
<td>Removed the Portable Rock Crusher (RC-01) from the table of Permitted Sources.</td>
</tr>
<tr>
<td>N/A</td>
<td>Section 2.1</td>
<td>Removed the Portable Rock Crusher (RC-01) from the permit along with the associated monitoring and recordkeeping requirements.</td>
</tr>
<tr>
<td>Page 8 of permit</td>
<td>Section 2.1</td>
<td>Added 40 CFR 61, Subpart M to the table of applicable regulations.</td>
</tr>
<tr>
<td>Page 10</td>
<td>Section 2.1</td>
<td>Added odor regulation (02D.1806) to the landfill section of the permit.</td>
</tr>
<tr>
<td>Page 11</td>
<td>Section 2.2</td>
<td>Permit Shield for Nonapplicable Requirements</td>
</tr>
<tr>
<td>Page 11</td>
<td>Section 3</td>
<td>Added Insignificant Activities table as Section 3. Removed the nonroad engine associated with the Portable rock crusher (IES-6) from the insignificant activities table.</td>
</tr>
<tr>
<td>Pages 12-20</td>
<td>Section 4</td>
<td>Added General Conditions as Section 4 (Version 6.0, version 01/07/2022).</td>
</tr>
</tbody>
</table>
6. Table Permitted Sources

The facility’s permitted emission sources are as follows:

<table>
<thead>
<tr>
<th>Emission Source ID No.</th>
<th>Emission Source Description</th>
<th>Control Device ID No.</th>
<th>Control Device Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES-01 NSPS XXX</td>
<td>Municipal solid waste (MSW) landfill</td>
<td>CD-GCCS*</td>
<td>One landfill gas collection system with</td>
</tr>
<tr>
<td>40 CFR 61 Subpart M</td>
<td></td>
<td>CD-1*</td>
<td>One landfill gas-fired utility candlestick flare (3,500 scfm maximum flow rate, 106.26 million Btu per hour heat input at 506 Btu per cubic foot heat value of LFG)</td>
</tr>
</tbody>
</table>

* Voluntary gas collection and control system with no regulatory requirements under NSPS XXX.

Insignificant Activities in accordance with 15A NCAC 02Q .0503(8)

<table>
<thead>
<tr>
<th>Emission Source ID No.</th>
<th>Emission Source Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IES-1</td>
<td>Two Diesel-powered Mobile Truck Tippers</td>
</tr>
<tr>
<td>IES-2</td>
<td>One 250,000 gallon Leachate Tank</td>
</tr>
<tr>
<td>IES-3</td>
<td>One 1,000 gallon No. 2 Fuel Oil Storage Tank</td>
</tr>
<tr>
<td>IES-4</td>
<td>Two Temporary Passive Solar Activated Flares</td>
</tr>
<tr>
<td>IES-5</td>
<td>One 2,000 gallon No. 2 Fuel Oil Storage Tank</td>
</tr>
</tbody>
</table>

7. NSPS, NESHAP/MACT, PSD, 112(r), CAM & Attainment Status

None of these regulations are affected by the removal of the portable rock crusher (RC-01).

Randolph County has not triggered increment tracking under PSD for any pollutants, so no tracking is required. This status is not affected with this permit modification.

8. Regulatory Review

The following regulations are being removed from the Title V permit with the removal of the portable rock crusher RC-01.

- 15A NCAC 02D .0510: Particulates From Sand, Gravel, Sand or Crushed Stone

9. Other Regulatory Requirements

- A Zoning Consistency Determination was not required with this application to remove the portable rock crusher and associated monitoring and recordkeeping requirements.
- The application was signed by the Responsible Official (Thomas Lewis).
- The required permit application fee of $1,002.00 was received on October 21, 2021 with the application.

10. Statement of Compliance

The latest compliance inspection was conducted by Robert Barker on March 3, 2022. The facility was found to be operating in compliance at the time of inspection.
11. Public Notice Review

A notice of the DRAFT Title V Permit shall be made pursuant to 15A NCAC 02Q.0521. The notice will provide for a 30-day comment period, with an opportunity for a public hearing. Consistent with 15A NCAC 02Q.0525, the EPA will have a concurrent 45-day review period. Copies of the public notice shall be sent to persons on the Title V mailing list and EPA. Pursuant to 15A NCAC 02Q.0522, a copy of each permit application, each proposed permit and each final permit shall be provided to EPA.

The 30-day public notice period was from MONTH XX, 20XX through MONTH XX, 20XX.

The EPA 45-day review period was from MONTH XX, 20XX through MONTH XX, 20XX.

[Number of] comments were received during the public notice period and the EPA review period.

12. Comments and Recommendations

This permit modification for the Great Oak Landfill located in Randleman, Randolph County, NC has been reviewed by DAQ to determine compliance with all procedures and requirements. DAQ has determined that this facility is complying or will achieve compliance, as specified in the permit, with all requirements that are applicable to the affected sources. The DAQ recommends the issuance of Air Permit No. 10446T05.