



NORTH CAROLINA
Environmental Quality

ROY COOPER
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Secretary

MICHAEL SCOTT
Director

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION

SOLID WASTE MANAGEMENT FACILITY

Permit No. 7607-MSWLF-2015

COUNTY OF RANDOLPH, N.C. (OWNER)

and

WASTE MANAGEMENT OF CAROLINAS. INC. (OPERATOR)

are hereby issued a

PERMIT APPROVAL TO CONSTRUCT

7607-MSWLF-2015, GREAT OAK LANDFILL - PHASE 1

PERMIT APPROVAL TO OPERATE

7607-MSWLF-2015, GREAT OAK LANDFILL - PHASE 1, CELLS 1, 2, & 3A

PERMIT FOR CLOSURE

NOT APPLICABLE

located at 3597 Old Cedar Falls Road in Randolph County, North Carolina, in accordance with Article 9, Chapter 130A, of the General Statutes of North Carolina and all rules promulgated thereunder and subject to the conditions set forth in this permit. The legal description of the site is identified on the deed recorded for this property listed in Attachment 1 of this permit.

Sherri Stanley
Permitting Branch Supervisor
Solid Waste Section
Division of Waste Management

**ATTACHMENT 1
 GENERAL PERMIT CONDITIONS INFORMATION**

Permit	Status	Issuance	Expiration ^a	FID ^b
7607-MSWLF-2015	Active	August 30, 2019	December 29, 2076	1357256

Notes:

- a. Pursuant to N.C.G.S. 130A-294(a2), this life-of-site permit is issued to permittee to construct and operate the landfill phases, which are specified in this permit of the Great Oak Landfill (MSWLF) unit. This permit shall survive the expiration of the amended franchise agreement (FID 1322196) between Randolph County, North Carolina and Waste Management of Carolinas, Inc. per N.C.G.S. 130A-294(a4).
- b. FID = File Identification Number.

Part I General Facility

1. This permit is issued by the North Carolina Department of Environmental Quality, Division of Waste Management, Solid Waste Section (Section). In accordance with North Carolina Solid Waste Management Rule (Rule) 15A NCAC 13B .0201(d), a solid waste management facility permit shall have two parts: a permit approval to construct and a permit approval to operate. The permit approval to construct must be implemented in accordance with Attachment 2 of this permit. The permit approval to operate must be implemented in accordance with Attachment 3 of this permit.
2. The persons to whom this permit is issued (“permittee”) are the owners and operators of the solid waste management facility.
3. The permit approval to construct issued January 19, 2016 (DIN 25142) was recorded on February 01, 2016, with the Randolph County Register of Deeds in deed book 2479, pages 74 - 93 (DIN 25520).
4. When this property is sold, leased, conveyed, or transferred in any manner, the deed or other instrument of transfer must contain in the deed description section, in no smaller type than that used in the body of the deed or instrument, a statement that the property has been used as a solid waste management facility and a reference by book and page to the recordation of the permit.
5. By initiating construction or receiving waste at this facility the permittee shall be considered to have accepted the terms and conditions of this permit.
6. Operation of this solid waste management facility shall be in accordance with the North Carolina Solid Waste Management Rules, 15A NCAC 13B; Article 9 of the Chapter 130A of the North Carolina General Statutes (N.C.G.S. 130A-290, et seq.); the conditions contained in this permit; and the approved plan. Should the approved plan and the rules

conflict, the Solid Waste Management Rules shall take precedence unless specifically addressed by permit condition. Failure to comply may result in compliance action or permit revocation.

7. This permit is issued based on the documents submitted in support of the application for permitting the facility including those identified in Attachment 1, "List of Documents for Approved Plan," and which constitute the approved plans for the facility. Where discrepancies exist, the most recent submittals and the conditions of permit shall govern.
8. This permit may be transferred only with the approval of the Section, through the issuance of a new or substantially amended permit in accordance with applicable statutes and rules.
9. In accordance with N.C.G.S. 130A-295.2(g) the permittee must notify the Section thirty (30) days prior to any significant change in the identity or business structure of either the owner or the operator, including but not limited to a proposed transfer of ownership of the facility or a change in the parent company of the owner or a change in the operator of the facility or parent company of the operator.
10. The permittee is responsible for obtaining all permits and approvals necessary for the development of this project including approval from appropriate agencies for a General or Individual National Pollutant Discharge Elimination System (NPDES) Stormwater Discharge Permit. Issuance of this permit does not remove the permittee's responsibilities for compliance with any other local, state or federal rule, regulation, or statute.

Properties Approved for the Solid Waste Management Facilities

Randolph County, North Carolina (NC) Register of Deeds				
Parcel ID	Book	Page	Grantor	Grantee
7773716234	1280	961	John M. Jordan and Wife, Margaret C. Jordan	Randolph County
7772692916	1280	961	John M. Jordan and Wife, Margaret C. Jordan	Randolph County
7772775834	1308	294	Edna M. Laughlin	Randolph County, 707 McDowell Road Asheboro, NC 27203
7772865823	2343	191	Judith Sower Bailey and husband, Darrel Bailey	Randolph County

7772798400	1280	1079	Alex V. McCracken and wife, Carol S. McCracken; Wilbur D. McCracken and wife, Joyce Laverne McCracken	Randolph County, a Political Subdivision of the State of NC
7772471980	1280	826	Newton Wicker and wife, Golda L. Wicker	Randolph County, a Political Subdivision of the State of NC
7773707533	1280	965	Ricky C. Zachary and wife, Brenda M. Zachary	Randolph County, a Political Subdivision of the State of NC
7772797183	1311	1988	Crystal Renee McCracken Webster and husband, Richard Douglas Webster	Randolph County, a Political Subdivision of the State of NC
7772786700	1280	969	Michael R. McMillan and wife, Susan S. McMillan; Kenneth W. Loftis and wife, Lori R. Loftis	Randolph County, a Political Subdivision of the State of NC
7773306535	1052	102	Alpine Village, Inc.	Randolph County
7772461379	1308	286	Jane Marie Laughlin Moore and husband, Richard Dean Moore	Randolph County, a Political Subdivision of the State of NC; 707 McDowell Road Asheboro, NC 27203
7772670859	1246	1078	Charles Lynn Small; Joyce Small Walker and husband, Charles Robert Walker; Carolyn Small Smith and husband, James Larry Smith	Randolph County, a Political Subdivision of the State of NC, 725 McDowell Road Asheboro, NC 27203
7772598444	1280	948	Carl A. Tomeo Jr. and wife, Yon Cha Tomeo	Randolph County, a Political Subdivision of the State of NC
7772690956	1280	957	Richard M. Jaeger and wife, Judy S. Jaeger	Randolph County, a Political Subdivision of the State of NC
7772693966	1280	963	Calvin Manley and wife, Jerri Manley	Randolph County, a Political Subdivision of the State of NC
7772695926	1280	991	Daniel Oliver Grant	Randolph County, a Political Subdivision of the State of NC

7772797876	1280	967	Daniel Norris Alman and wife, Cathey Sue McDougal	Randolph County, a Political Subdivision of the State of NC
7772971865	1653	1044	Edgar Warren Sower and wife, Kay Frances Price Sower	Randolph County

Total Site Acreage - 666.40 acres as per Revised Boundary Survey (09-01-2015) by Fleming Engineering, Inc.

Part II Municipal Solid Waste Landfill Unit(s)
7607-MSWLF-2015, Great Oak Landfill

Permitting History

Permit Type	Date Issued	DIN/FID
Site Suitability	January 21, 2015	22909
Permit Approval to Construct (10-year) - Phase 1	January 19, 2016	25142
Permit Approval to Operate (PTO, 10-year) - Phase 1, Cell 1A	December 29, 2016	27188
PTO (10-year) - Phase 1, Cells 1A & 1B	April 10, 2017	27612
PTO (10-years) – Phase 1, Cells 1 & 2	September 10, 2018	1236892
PTO (life-of-site) – Phase 1, Cells 1, 2 & 3A; substantial amendment by doubling daily disposal tonnage to 4,000 tons per day	August 30, 2019	1357256

List of Documents for the Approved Plan

DIN/FID	DOCUMENT DESCRIPTION
21429	<i>Site Suitability Report, Proposed Municipal Solid Waste Landfill, Randolph County, North Carolina, Volume I. Prepared for Randolph County Public Works. Prepared by Golder Associates NC, Inc. September 2013.</i>
21430	<i>Site Hydrogeologic Report, Proposed Municipal Solid Waste Landfill, Randolph County, North Carolina, Volume II. Prepared for Randolph County Public Works. Prepared by Golder Associates NC, Inc. September 2013.</i>
21431	<i>Facility Plan Report, Proposed Municipal Solid Waste Landfill, Randolph County, North Carolina, Volume II . Prepared for Randolph County Public Works. Prepared by Golder Associates NC, Inc. September 2013.</i>
22483	<i>An Ordinance Granting a Franchise to Waste Management of Carolinas, Inc. to Permit, Construct and Operate Sanitary Landfill in Randolph County. Approved by the Randolph County Board of Commissioners Dated April 07, 2014. This is a 30-yr franchise agreement and shall expire on April 07, 2044 which may be renewed at the end of the 30-yr term subject to the laws existing at the time of the renewal application.</i>

22909	<i>Response To Comments On Site Suitability Study, Proposed Regional Municipal Solid Waste Landfill, Randolph County, NC.</i> Prepared for Randolph County Public Works. Prepared by Golder Associates NC, Inc. December 22, 2014.
23916, 25125, & 25216	<i>Permit to Construct Application for the Great Oak Landfill, Waste Management of Carolinas, Inc., Randolph County, North Carolina,</i> Prepared by S&ME Inc. for Waste Management of Carolinas, Inc., February 16, 2015. Volumes 1, 2 and 3, revised on 9/24/2015, and through 10/21/2015.
25273, 25274, 25275, & 25276	<i>Permit to Construct Application for the Great Oak Landfill, Waste Management of Carolinas, Inc., Randolph County, North Carolina,</i> Prepared by S&ME Inc. for Waste Management of Carolinas, Inc. Final Revised Application (Complete) Volumes I, II, II(drawings), & III. October 30, 2015.
26166	<i>Reponses to the May 23, 2016 Comments on the Technical Specifications and Construction Drawings.</i> Prepared by S&ME Inc. June 03, 2016.
26280	<i>Summary of Piezometer Abandonments, Groundwater and Landfill Gas Monitoring Well Installations, Monitoring Well Development, Groundwater Monitoring Well Improvements, and Aquifer Tests, Great Oak Landfill, Permit No. 76-07.</i> Prepared by Golder Associates NC, Inc. Dated June 15, 2016.
26624	<i>Memorandum regarding the final decision on CQA testing frequency of Geosynthetic Material – Liner and Geocomposite.</i> Prepared by SCS Engineers, PC. July 21, 2016.
26625, 26889, & 26892	<i>Construction Drawings (10 drawings)- Leachate Storage Facility, Great Oak Landfill.</i> Prepared by SCS Engineers, PC. July 29, 2016 revised October 17, 2016 and October 23, 2016.
26626	<i>E-mail Correspondence written by Albert D. Glenn, P.E. with SCS Engineers, regarding the material of new leachate storage tank being made of a glass fused coated steel tank manufactured by Permastore.</i> August 09, 2016.
26805	<i>Leak Location Work Plan, Waste Management Great Oak Landfill, Cell 1A.</i> Prepared by SCS Engineers, PC. September 12, 2016 revised September 22, 2016.
27190	<i>Construction Certification Report, Cell 1A, Great Oak Landfill (Permit No. 7607-MSWLF-2015. Volumes 1 & 2.</i> Prepared by SCS Engineers, PC. December 07, 2016, received December 08, 2016, and revised through December 22, 2016.
27122	<i>Operations Plan, Great Oak Landfill.</i> Prepared by S&ME Inc. February 16, 2015 and revised through December 02, 2016.
27611	<i>Construction Certification Report, Cell 1B, Great Oak Landfill (Permit No. 7607-MSWLF-2015.</i> Prepared by SCS Engineers, PC. March 07, 2017, received March 10, 2017, and revised through April 06, 2017.
28421	<i>Minor Permit Modification, Great Oak Landfill, Permit No. 7607-MSWLF-2015.</i> Prepared by SCS Engineers, PC. August 28, 017, 2017 and revised through October 04, 2017 (DIN 28437 & 28522). The document was approved on October 09, 2018 (DIN 28530).

28504	<i>Project Manual, Cell 2 Construction Project, Great Oak Landfill (Permit No. 7607-MSWLF-2015. Prepared by SCS Engineers, PC. August 07, 2017, received September 28, 2017, and revised through October 20, 2017 (DIN 28570).</i>
28768	<i>Clarification for Minor Permit Modification Geocomposite Transmissivity – Document Reference: DIN 28530, 28421, 28522, & 28437), Great Oak Landfill, Permit No. 7607-MSWLF-2015. Prepared by SCS Engineers, PC. Dated February 14, 2018. This approval determines the specified transmissivity of the 250-mil-thick drainage composite layer in LDS system must be greater than 1 X 10⁻⁵ m³/m/sec with specified loading and hydraulic gradient for Cell 2 area. The ALR for Cell 2 is 136 gallons per acre per day (DIN 28870).</i>
28769	<i>Notification of Using Geocomposite from Cell 1 Project for Cell 2 Project, Request for Variance with Transmissivity Testing Requirement, Great Oak Landfill, Permit No. 7607-MSWLF-2015. Prepared by SCS Engineers, PC. Dated February 5, 2018 (DIN 28742) and revised through February 22, 2018 (DIN 28763). The request was approved on February 23, 2018 (DIN 28770).</i>
28790	<i>Work Plan for Electrical Leak Location Testing of Great Oak Landfill Cell 2 Construction Project. Prepared by TRI Environmental, Inc. Prepared to SCS Engineers, PC. Dated February 1, 2018.</i>
1236885	<i>Construction Certification Report, Cell 2, Great Oak Landfill (Permit No. 7607-MSWLF-2015. Prepared by SCS Engineers, PC. July 23, 2018 and revised through August 21, 2018.</i>
1321743	<i>Major Permit Modification, Request for Daily Tonnage Increase, Great Oak Landfill, Permit No. 7607-MSWLF-2015. Prepared by SCS Engineers, PC. May 31, 2019. An Ordinance Approving A Solid Waste Franchise Pursuant to N.C. Gen. Stat. 153A-136 and 130A-294(b1)(2) effective April 1, 2019 is included. This franchise agreement approves the disposal tonnage increase to 4,000 tons per day.</i>
1322196	<i>Amended and Restated Agreement for the Construction and Operations of a MSWLF and Related Services between the Randolph County, North Carolina and Waste Management of Carolinas, Inc. Original agreement executed June 02, 2014. Amended and restated agreement executed April 1, 2019.</i>
1356999	<i>Operations Plan – Great Oak Landfill. Revised August 12, 2019 through August 23, 2019; prepared by SCS Engineers, PC.</i>
1357274	<i>Construction Certification Report, Cell 3A, Great Oak Landfill (Permit No. 7607-MSWLF-2015. Prepared by SCS Engineers, PC. June 21, 2019 and revised through August 28, 2019.</i>

DIN = Document Identification Number.

Part III: Construction and Demolition Debris Landfill Unit(s)

Not Applicable.

Part IV: Industrial Landfill Unit(s)

Not Applicable.

Part V: Land Clearing and Inert Debris Landfill Unit(s)

Not Applicable.

Part VI: Transfer Station/Treatment & Processing Unit(s)

Not Applicable.

Part VII: Miscellaneous Solid Waste Management Unit(s)

Not Applicable.

- End of Section -

**ATTACHMENT 2
CONDITIONS OF PERMIT APPROVAL TO CONSTRUCT**

Part I General Facility

1. Construction of all solid waste management units within the landfill facility must be in accordance with the pertinent approved plans and only for those phases of development approved for construction as described in Attachment 1, List of Documents for the Approved Plan.
2. Modifications or revisions of the approved documents or changes during construction require approval by the Section.
3. The permittee must conduct a preconstruction meeting at the landfill facility prior to initiating construction of any phase/cell/sub-cell of the landfill units and must notify the Section at least 10 days prior to the meeting.
4. Pursuant to North Carolina Solid Waste Management Rule (Rule) 15A NCAC 13B .0505, on-site open burning is prohibited. However, burning of land-cleaning debris generated on site as a result of construction activities may be allowed, only if, prior to initiating the controlled burning, the permittee obtains approvals and/or permits from the Section, the North Carolina (NC) Division of Air Quality, and local fire department. The permittee must conduct the approved open burning in compliance with all air pollution and open burn laws, regulations and ordinances.

Erosion and Sedimentation Control Requirements

5. All required sedimentation and erosion control measures must be installed and operable to mitigate excessive on-site erosion and to prevent silt from leaving the area of the landfill units during the service life of the facility.
6. All earth disturbing activities must be conducted in accordance with the approved Erosion and Sediment Control Plan, NPDES Stormwater General Permit NCG010000, the Sedimentation Pollution Control Act of 1973 (15A NCAC 4), and consistent with any other local, state or federal requirements.

7. Facility construction, operations or practices must not cause or result in a discharge of pollution, dredged material, and/or fill material into waters of the state in violation of the requirements under Sections 401 and 404 of the Clean Water Act, as amended.
8. Modifications to the approved sedimentation and erosion control activities require approval by the NC Land Quality Section. The Section must be notified of any sedimentation and erosion control plan modifications.

Geologic, Ground Water and Monitoring Requirements

9. Prior to construction of the sub-cells or cell(s) within the phase, all piezometers, borings, and groundwater monitoring wells within the footprint must be properly abandoned in accordance with 15A NCAC 2C .0113 (b)(1), entitled "Abandonment of Wells."
10. In areas where soil is to be undercut, abandoned piezometers, monitoring wells and borings must not be grouted to pre-grade land surface, but to the proposed base grade surface to prevent having to cut excess grout or damaging the wells.
11. A Licensed Geologist must report any pertinent geological feature(s) exposed during phase or cell excavation. Prior to placing any landfill liner, the geologist must submit to the Section Hydrogeologist a written report that includes an accurate description of the exposed geological feature(s) and effect of the geological feature(s) on the design, construction, and operation of the cell, phase, or unit.
12. A Licensed Geologist must supervise installation of groundwater monitoring wells and surface water sampling stations.
13. Any modification to the approved water quality monitoring, sampling, and analysis plan must be submitted to the Section Hydrogeologist for review.
14. Within 30 days of completed construction of each new groundwater monitoring well or landfill gas monitoring well, a well construction record (GW-1 form), typical well schematic, boring log, field log and notes, and description of well development activities must be submitted to the Section. Each monitoring well and gas probe must be surveyed for location and elevation.
15. The permittee must provide a plan sheet-sized, scaled topographical map, showing the location and identification of new, existing, and abandoned wells and piezometers after installation of groundwater monitoring wells.
16. Within thirty (30) days of the completed permanent abandonment of a ground-water monitoring well, the well abandonment record (GW-30 form) and any additional information included in the abandonment record must be submitted to the Section. The

well abandonment records must be submitted to the Solid Waste Section in accordance with 15A NCAC 2C .0114(b) and be certified by a Licensed Geologist.

17. All forms, reports, maps, plans, and data submitted to the Section must include an electronic (pdf) copy.

**Part II Municipal Solid Waste Landfill Unit(s)
 7607-MSWLF-2015, Great Oak Landfill**

1. This permit approves the Facility Plan (DIN 25274) that defines the comprehensive development of the lined Municipal Solid Waste Landfill (MSWLF) unit encompassing 190.1-acre waste footprint and consisting of nine (9)-phased developments – Phases 1 through 9 with total gross capacity of 38,414,389 cubic yards (CY), which is measured from the top of the protective cover to the top of final cover as shown on the Drawings FP3 of 15 through FP12 of 15 (DIN 25274) and summarized in the following table:

Phase/Cell	Net Air Space volume (CY)	Acreage	Status
Phase 1 – Cell 1	1,355,269	15.5 ^b	Cell constructed and permitted for operation by this permit
Phase 1 – Cell 2	759,892	10.0	
Phase 1 – Cell 3A	752,678	8.46	
Phase 1 – Cell 3B	279,363	3.14	Approved for construction by this permit
Phase 1 – Cell 4	802,272	4.8	
Phase 1 – Cell 5	1,159,678	4.6	
Phase 1 – Cell 6	785,617	5.0	
Phase 1 – Cell 7	1,265,852	4.8	
Phase 2	6,231,997	21.8	Suitable for Landfill Development (a new permit approval to construct application is required)
Phase 3	4,304,002	27.1	
Phase 4	1,411,783	10.4	
Phase 5	5,106,282	23.0	
Phase 6	1,865,616	11.4	
Phase 7	3,581,369	15.9	
Phase 8	4,317,968	11.0	
Phase 9	4,434,750	13.2	
Total	38,414,389 ^a	190.1	

Notes:

- a. The approved gross capacity of the MSWLF is 41,739,400 CY (FID 1322196). Based on the current design, the landfill has a gross capacity of 38,414,389 CY, combining net air space of 37,801,001 CY and final cover system of 613,388 CY, but permittee is not ceding the original approved gross capacity of the landfill of 41,739,400 CY.

- b. The constructed waste footprint of Cell 1B is 7.0 acres, 0.2 acres was ceded due to field modification caused by a guy wire owned by Duke Energy. This variation of the approved waste footprint will not change the approved total gross capacity of the landfill.
2. Pursuant to Rule 15A NCAC 13B .0201(d)(1), this permit approval to construct (PTC) approves:
 - a. The construction of the lined MSWLF - Phase 1, a lateral expansion of the MSWLF unit consisting of seven cells, Cells 1 through 7 which encompass a waste footprint of 56.3 acre, individually as shown on Figure Nos. 3 through 10 (DIN 27122).
 - b. Phase 1 encompassing approximately 56.3 acres has the approved total gross capacity of 7,160,662 CY.
 - c. Construction of Phase 1 of the lined MSWLF shall only be in accordance with the approved plans and drawings listed in Part II of Attachment 1 of this permit and the requirements stipulated in N.C.G.S 130A-295.6(h) and Rules 15A NCAC 13B .1600.
3. Pursuant to Rule 15A NCAC 13B .1604(b)(2)(H), the permittee must commence construction authorized by this PTC for the lined MSWLF – Phase 1 within 18 months from the issuance date of this PTC- **January 19, 2016**. Construction includes, but is not limited to, issuance of construction contracts, mobilization of equipment on site, and related construction activities including installation of sedimentation and erosion control structures. If construction does not begin within 18 months from the issuance date of this permit, then the PTC for the lined MSWLF – Phase 1 defined in this permit shall expire. However, the permittee may re-apply for the PTC prior to this expiration date, and the re-application will be subject to the statutes and rules in effect on that date.
4. Pursuant to N.C.G.S 130A-294(a3)(1)c., the permittee must submit to the Section a request for a permit review and to obtain a new permit for expansion and operation of the future landfill phases – Phases 2 through 7 which are defined in the approved Facility Plan (DIN 25274) and Permit Condition No. 1, Part II of Attachment 2 of this permit. The permit application for a permit review must update pertinent plans to the landfill facility including facility plan, engineering plan, operations plan, closure & post-closure plan, financial assurance cost estimates, environmental media monitoring plans, and any other applicable modification to the plans, which shall be made in accordance with rules in effect at the time of review.

Pre-Operational Conditions

5. The following conditions must be met prior to receiving wastes at the newly constructed phases, cells, or sub-cells of any landfill unit:

- a. The permittee must obtain a permit approval to operate (PTO) from the Section for operating the constructed phases, cells or sub-cells of the landfill unit in accordance with 15A NCAC 13B .0201(d).
- b. Site preparation, final landfill base grading, and vertical separation requirements have been performed in accordance with the Rule 15A NCAC 13B .1624, N.C.G.S 130A-295.6(h), and the approved plan.
 - i) A written Construction Quality Assurance (CQA) report including: A certification by a professional engineer registered in the State of North Carolina.
 - ii) As-built drawings demonstrating that the landfill base liner system was built in accordance with Rule 15A NCAC 13B .1624.
 - iii) The approved CQA plan (DIN 25276) and the amendments (DINs 26166, 26624, 26625, 26889, 26892, 26626, 26805, 28504, & 28769), and the conditions of the permit must be submitted to the Section for review and approval.
- c. The permittee must contact the appropriate regional Solid Waste Management Specialist to determine whether the Section chooses to hold a pre-operative meeting including a site inspection with key landfill personnel and the Section's representatives for the purpose of demonstrating that the facility construction is consistent with approved plans and specifications.
- d. New groundwater monitoring wells and landfill gas monitoring wells shall be installed, and surface water sampling locations shall be established. A baseline sampling event for background water quality shall be performed in accordance with Rule 15A NCAC 13B .1633 and the approved water quality monitoring plan. Well construction records and sampling results shall be submitted to the Section Hydrogeologist for review and approval prior to issuing the PTO.
- e. The permittee shall completely implement and install site access, security, signs, and safety requirements in accordance with Rule 15A NCAC 13B .1626.
- f. The edge of the waste footprint must be identified with permanent physical markers.
- g. Documentation of financial assurance mechanisms must be submitted to the Section. The financial assurance amount must include closure and post-closure costs including the new phase, cell, or sub-cell to receive the PTO in accordance with N.C.G.S. 130A-295.2 and Rule 15A NCAC 13B .1628.

Part III: Construction and Demolition Debris Landfill Unit(S)

Not Applicable.

Part IV Industrial Landfill Unit(S)

Not Applicable.

Part V: Land Clearing and Inert Debris Landfill Unit(S)

Not Applicable.

Part VI: Transfer Station/Treatment & Processing Unit(S)

Not Applicable.

Part VII: Miscellaneous Solid Waste Management Unit(s)

Not Applicable.

-End of Section-

**ATTACHMENT 3
CONDITIONS OF PERMIT APPROVAL TO OPERATE**

Part I: General Facility

1. Pursuant to N.C.G.S. 130A- 309.09A(g), the permittee must not knowingly dispose of solid wastes including municipal solid waste (MSW) and construction or demolition debris (C&D) solid waste that is generated within the boundaries of a unit of local government that by ordinance:
 - a. Prohibits generators or collectors of solid waste from disposing of that type or form of solid waste.
 - b. Requires generators or collectors of solid waste to recycle that type or form of solid waste.
2. This facility is permitted to receive non-hazardous solid waste, as defined in N.C.G.S. 130-290 (a)(35) that is:
 - a. Generated within the State of North Carolina and consistent with the local government waste management plan and the franchise agreement and the amendment approved by the Board of Commissioners of Randolph County on April 07, 2014 (DIN 22483) and April 1, 2019 (FID 1321743), respectively. The facility is **NOT PERMITTED** to receive solid waste from transfer stations that accept solid waste generated outside the State of North Carolina.
 - b. MSW waste, including C&D waste as defined in N.C.G.S. 130-290(a)(18a) and (4), except where prohibited by the franchise agreement, N.C.G.S. Article 9 of Chapter 130A, and the 15A NCAC 13B rules.
 - c. The volume of waste disposal shall not exceed an average daily intake and disposal rate of 4,000 tons per day or a maximum daily intake and disposal rate of 5,500 tons per day to account for times when intake rate may peak, including periods when emergency debris management is required after floods, hurricanes,

tornados or other such events consistent with the amended Franchise Agreement (FID 1321743) with a maximum variance that is in accordance with N.C.G.S. 130A-294(b1)(1).

3. The facility must not accept the following wastes for disposal, at a minimum: hazardous waste, yard trash, white goods, tires, recyclable rigid plastic bottles, wooden pallets, motor vehicle oil filters, liquid wastes, regulated medical waste, sharps not properly packaged, PCB waste as defined in 40 CFR 761, and wastes banned from disposal in N.C.G.S. 130A-309.10(f).
4. The facility operator must complete an approved operator training course in compliance with N.C.G.S. 130A-309.25.
 - a. A responsible individual certified in landfill operations must be on-site during all operating hours of the facility at all times while open for public use.
 - b. All pertinent landfill-operating personnel must receive training and supervision necessary to properly operate the landfill units in accordance with N.C.G.S. 130A-309.25 and addressed by memorandum dated November 29, 2000.
5. The permittee must actively employ a training and screening program at the facility prepared in accordance with applicable Rules, N.C.G.S. 130A-295.6(g), and the approved Operations Plan (FID 1356999) for detecting and preventing the disposal of excluded or unauthorized wastes. At a minimum, the program must include:
 - a. Random inspections of incoming loads or other comparable procedures.
 - b. Records of any inspections.
 - c. Training of personnel to recognize hazardous, liquid, and other excluded waste types.
 - d. Development of a contingency plan to properly manage any identified hazardous, liquid, or other excluded or unauthorized wastes. The plan must address identification, removal, storage and final disposition of these wastes.
6. Financial assurance must be continuously maintained for the duration of the facility. The permittee must annually update and adjust closure and post-closure cost estimates and costs for potential assessment and corrective action at the landfill facility for inflation according to N.C.G.S. 130A-295.2.
7. Facility construction, operations or practices must not cause or result in a discharge of pollution, dredged material, and/or fill material into waters of the state in violation of the requirements under Sections 401 and 404 of the Clean Water Act, as amended.

8. All sedimentation and erosion control activities must be conducted in accordance with the Sedimentation Control Act N.C.G.S. 113A-50, et seq. and rules promulgated under 15A NCAC 4, and NPDES Stormwater General Permit NCG120000. All required sedimentation and erosion control measures must be installed and operable to mitigate excessive on-site erosion and to prevent silt from leaving the area of the landfill unit during the service life of the facility.
9. The permittee shall implement a program for collecting, removing, and properly disposing of windblown litter or wastes daily at the areas inside the landfill facility and site entrance and the roads leading to the site entrance according to the Amended and Restated Agreement effective April 1, 2019 (FID 1322196).
10. The permittee must properly maintain permanent markers that accurately identify the edge of the approved waste footprint for all active, inactive, and closed disposal units at the landfill facility.

Environmental Media Monitoring and Reporting Requirements

General Conditions

11. Groundwater, surface water, and landfill gas monitoring locations must be established and monitored as identified in the approved plans (DINs 25273 & 25276).
12. The permittee must implement the following permit conditions:
 - a. The permittee must obtain approval from the Section for the design, installation, and abandonment of any groundwater or landfill gas monitoring well.
 - b. Each groundwater and landfill gas monitoring well must be surveyed in accordance with Rule 15A NCAC 13B .1632(d)(1).
 - c. Each groundwater and landfill gas monitoring well must have an identification plate permanently attached to the well, in accordance with 15A NCAC 2C .0108(o).
 - d. The permittee must maintain the following documentations in the facility operating record in accordance with Rule 15A NCAC 13B .1626(10):
 - i) The report for each monitoring event of groundwater, and surface water, and landfill gas and pertinent analytical data.
 - ii) Documents of well completion, development details, repair, abandonment, and all other pertinent activities associated with each groundwater and landfill gas monitoring well.

- e. A readily accessible, unobstructed path must be maintained so that groundwater and landfill gas monitoring wells, and surface water sampling locations are accessible using four-wheel drive vehicles.

Water Quality Monitoring and Reporting Conditions

13. Groundwater and surface water monitoring at this landfill facility must be conducted in compliance with Rules 15A NCAC 13B .1630 through .1637, .0602, and the approved monitoring plan (DIN 25273). Any proposed modification to an approved plan must be submitted to the Section and approved prior to implementation.
14. Groundwater quality is subject to 15A NCAC 2L – Groundwater Classifications Standards and the Groundwater Protection Standards (GPS) established under Rule 15A NCAC 13B .1634(i). Surface water is subject to 15A NCAC 2B – Surface Water and Wetlands Standards.
15. Unless otherwise specified by the Section, surface water locations, and groundwater monitoring wells must be sampled at least semi-annually in accordance with applicable Rules, the approved monitoring plan, and the current policies and guidelines of the Section in effect at the time of sampling.
16. Monitoring reports of the analytical results for groundwater and surface water sampling events must be submitted to the Section within 120 days of the sample collection date. Analytical laboratory data must be submitted in electronic format (pdf) and in a spreadsheet format in an Electronic Data Deliverable (EDD) Template. All monitoring reports must contain:
 - a. A potentiometric surface map for the current sampling event.
 - b. Analytical laboratory reports and summary tables.
 - c. A completed Solid Waste Environmental Monitoring Data Form.
 - d. Laboratory data submitted in accordance with the EDD Template.
17. The permittee must implement the following permit conditions:
 - a. For a MSWLF Unit. The four independent samples which comprise the initial baseline sampling event must be collected from each new installed groundwater monitoring well in accordance with 15A NCAC 13B. 1633(b).
 - b. The report including analytical data must meet the requirements stated in the Permit Condition **No. 16** of Part I, Attachment 3 and be submitted to the Section for review.

Landfill Gas Monitoring, Management, and Reporting Conditions

18. A landfill gas monitoring event must include monitoring for explosive gases must be conducted at the facility including interior monitoring of on-site buildings in accordance with the approved landfill gas monitoring plan (DIN 25276) and Rule 15A NCAC 13B .1626 (4). Any proposed modification to an approved plan must be submitted to the Section Hydrogeologist and approved prior to implementation.
19. The permittee must sample landfill gas quarterly unless otherwise required for corrective action or specified by the Section.
20. Landfill gas monitoring reports must be placed in the facility's operating record, according to Rule 15A NCAC 13B .1626(10), within 7 days of the monitoring event, and must include a description of the monitoring method used, the sampling results of each well and onsite buildings in percent of the lower explosive limit (LEL), date of monitoring, weather conditions, calibration report, and signature of the sampling personnel.
21. If landfill gas monitoring reveals detections of methane greater than 25 percent of the LEL in onsite buildings, or detections of LEL at the compliance boundary, the permittee must comply with the requirements of Rule 15A NCAC 13B .1626(4).
22. The permittee must employ properly trained personnel to conduct gas monitoring and to operate and maintain the constructed landfill gas collection and control system (LFGCCs) and landfill gas to energy system (LFGTE).
23. The permittee must maintain the valid permit (s) from the NC Division of Air Quality and comply with any local, state or federal regulations including routinely reporting requirements to operate the LFGCCs and/or LFGTE.

Recording and Recordkeeping

24. Copies of this permit, the approved plans, and all records required to be maintained by the permittee must be maintained in the operating record at the facility and made available to the Section upon request during normal business hours.
25. The permittee must maintain records of the following. Scales must be used to weigh the amount of waste received. The daily reports are to be summarized into a monthly report for use in the required annual reports.
 - a. The amount of all accepted solid waste materials as (i) MSW (ii) C&D wastes, (iii) material used as alternate daily cover, and (iv) recyclable material.
 - b. Daily records of waste received, and origins of the loads.

26. On or before August 1 annually, the permittee must submit an annual facility report to the Solid Waste Section, on forms prescribed by the Section.
- a. The reporting period shall be for the previous year beginning July 1 and ending June 30.
 - b. The annual facility report must list the amount of waste received and landfilled in tons and be compiled:
 - i) On a monthly basis.
 - ii) By county, city or transfer station of origin.
 - iii) By specific waste type.
 - iv) By disposal location within the facility.
 - v) By diversion to alternative management facilities.
 - c. A measurement of volume utilized in the landfill cells must be performed during the second quarter of the calendar year. The date and volumes, in cubic yards, must be included in the report.
 - d. The amount of waste, in tons from scale records, disposed in landfill cells from December 29, 2016 through the date of the annual volume survey must be included in the report.
 - e. The tons of waste recycled, recovered or diverted from disposal including a description of how and where the material was ultimately managed, as applicable, must be included in the report.
 - f. The completed report must be forwarded to the Regional Solid Waste Management Specialist for the facility by the date due on the prescribed annual facility report form.
 - g. A copy of the completed report must be forwarded to each county manager for each county from which waste was received at the facility. Documentation that a copy of the report has been forwarded to the county managers must be sent to the Regional Solid Waste Management Specialist by the date due on the prescribed annual facility report form.

Part II: Municipal Solid Waste Landfill Unit(s)

1. This permit approves the continued operation of Phase 1, Cell 1 consisting of Cell 1A & Cell 1B) and Cell 2 of the lined MSWLF unit as well as the onsite environmental management and protection facilities as described in the approved plan and report (DINs 27122, 27190 & FID1236885). The constructed Phase 1, Cells 1 & 2 of the MSWLF unit:

Phase 1	Waste Footprint (acre)	Gross Capacity (CY)	Fill Elevation (amsl)
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Cell 1	15.3	1,302,644 ^a	730 feet ^b
Cell 2	10	727,625	738 feet ^c

Notes:

- a. Cell 1 has approved gross capacity of 1,302,644 CY, which is reduced from the original operating capacity of 1,305,256 CY due to field modification caused by a guy wire owned by Duke Energy (DINs 27190 & 27611). Permittee is not ceding the original approved gross capacity of the landfill of 38,414,389 CY due to this field modification.
 - b. Cell 1 has the maximum fill elevation up to approximately 730 feet above mean sea level (amsl) and with a 3 (horizontal) to 1 (vertical) side slope as shown on Figure No. 4 of the Operations Plan (DIN 27122).
 - c. Cells 1 & 2 have the maximum fill elevations up to approximately 730 feet amsl and with a 3 (horizontal) to 1 (vertical) side slope and approximately 5% slope from 730 to 738 feet amsl as shown on Figure No. 5 of the Operations Plan (DIN 27122).
2. This permit approves the operation of Phase 1, Cell 3A of the lined MSWLF unit as well as the onsite environmental management and protection facilities as described in the approved report (FID1357274). The constructed Phase 1, Cell 3A of the MSWLF unit has
 - a. 8.46-acre waste footprint, and
 - b. 752,678-CY operating capacity with a maximum fill elevation up to approximately 700 feet above mean sea level (amsl) and with a 3 (horizontal) to 1 (vertical) side slope as shown on Figure No. 6 of the Operations Plan (FID 1356999).
 3. Operation of future phases or cells of the landfill requires written approval of the Section after documentation has been submitted that the area has been constructed in accordance with the applicable statutes and Rule 15A NCAC 13B .1617.
 3. Regulated asbestos-containing material as defined in 40 CFR 61 must be managed in accordance with 40 CFR 61. Disposal of asbestos waste must be in accordance with Rule 15A NCAC 13B .1626(1)(d).
 4. Non-regulated and non-infectious (treated) medical wastes as defined in NCGS 130A-290(a)(17a) may be acceptable for disposal at the landfill unit in accordance with the all applicable state or federal regulations, rules, or laws.

5. The facility is permitted to co-dispose of wastewater treatment sludge generated within the facility's approved service area, subject to the terms and procedures per Rule 15A NCAC 13B .1626(1)(e).
6. According to N.C.G.S 130A-309.57(c)(3), the permittee is approved to receive shredded tires at the MSWLF unit for final disposal provided the tires have been cut into sufficiently small parts. The permittee must dispose of shredded tires at the landfill according to Rule 15A NCAC 13B. 1108.
7. In accordance with NCGS 130A-295.6 this landfill may use alternative daily cover (ADC) according to the following conditions:
 - a. ADC and pertinent applications have been previously approved at another sanitary landfill in North Carolina. The Section maintains a list of approved ADC and its appropriate use, which may be referred to, but is not required to be, in determining ADC types and uses.
 - b. ADC and pertinent applications of ADC are described in the approved Operations Plan. The MSWLF unit is approved to use the following ADCs: reusable tarps, auto-shredder fluff, spraying mortar coatings (such as Posi-shell) or petroleum contaminated soil or debris (FID 1356999).
8. The use of ADC that does not meet the requirements stated in Permit Condition No. 7, Part II, Attachment 3 of this permit requires approval, prior to implementation, by the Section. Requests for ADC approval must include a plan detailing the comprehensive use and a demonstration of the effectiveness of the alternative cover, developed according to Section guidelines. Plans that are approved by the Section will be incorporated into, and made a part of, the approved documents listed in Attachment 1 of this permit.
9. The permittee must maintain records for all solid waste materials accepted and used as ADC. The records must include: the date of receipt, weight of material, general description of the material, identity of the generator and transporter, and county of origin. Such records must be made available to the Section upon request. The application of ADC materials in excess of normal application of daily cover of the material shall constitute disposal.
10. Permittee must operate a portable tipper according to the approved Operations Plan (FID 1356999) and manufacturer's instruction and ensure that:
 - a. The tipper operating instructions and safety protocols shall be available to the operator who will work at tipper.
 - b. The waste trailer must be designed for the tipper use.

- c. A tipper shall not be used when the wind speed exceeds 50 mile per hour or as recommended by the tipper manufacturer, whichever is lower. A warning sign of the wind speed will be posted on the tipper.
 - d. Wastes on, around, or under the tipper resulted from wastes operations must be collected, removed from the tipper, disposed of the working face, and properly covered at the conclusion of each operating day.
11. The use of leachate recirculation as a leachate management tool requires approval by the Section prior to implementation. Requests for leachate recirculation approval must include a comprehensive management plan developed according to Section guidelines. Plans approved by the Section will be incorporated into the approved documents listed in Attachment 1 of this permit. Leachate recirculation may take place only in landfill areas equipped with a base liner that meets the design requirements of 15 NCAC 13B .1624(b)(1)(A)(i).
 12. The leachate collection and removal (LCR) system must be cleaned and maintained in accordance with NCGS 130A-295.6(h)(3) and the approved Operations Plan (FID 1356999). The permittee must maintain documentations of the leachate line inspections, cleaning, and monitoring in the operating records of the facility and provided to the Section upon request.
 13. In accordance with the approved Operations Plan (FID 1356999) the permittee must routinely clean and maintain the leak detection system (LDS) to ensure the action leakage rate (ALR) generated in the secondary and tertiary liner systems is accurately measured and documented. The permittee must implement the approved Response Action Plan (FID 1356999) if the measured ALR exceeds the following quantities:

Phase	ALR (gallons per acre per day)
Phase 1, Cell 1	182
Phase 1, Cells 2 & 3A	136

14. The permittee must complete the following permit conditions of cell activation prior to receiving any waste at a landfill cell or sub-cell:
 - a. The stormwater separation devices involving rainwater flaps or geosynthetic rain covers which are welded to the landfill base geomembrane liner must be properly removed and disposed of.
 - b. Areas of the protective layer in the cells that are subjected to soil erosion must be properly backfilled with the earthen material specified in the approved Construction Quality Assurance Plan (DIN 25276) and the amendment (DIN 28504), and compacted, re-graded, and restored to the approved grade lines.

- c. The LCR & LDS piping must be properly connected to the existing LCR & LDS piping and sumps, respectively so that collected leachate inside the new cell or sub-cell can flow as functional as originally designed.
 - d. The geotextile that is wrapped around gravel/coarse aggregate columns, which are placed in the sumps and enveloped around leachate piping trenches, to prevent the LCR piping from silting up must be properly cut, removed, and disposed so that waste can be placed in direct contact with gravel/coarse aggregate.
 - e. Documents of completing the cell activation activities stated in the paragraphs a. through d. of this permit condition must be included in the operating records of the facility and provided to the Section upon request.
15. The permittee must routinely inspect leachate force main including manholes inside the landfill facility property boundaries on a weekly basis for leaks, corrosion, maintenance deficiencies, and improper functioning or operations. The inspection, repairment, reporting requirement, and documentation must be properly conducted/prepared according to the Operations Plan (FID 1356999).
 16. Leachate storage tank facility and the pump station must be routinely inspected, maintained, or repaired according to the approved plan, manufacturers' recommendations / specifications, and Rule 15A NCAC 13B .1680(c), and the approved plan.
 17. Untreated leachate must be sampled and analyzed at least semi-annually concurrently with the groundwater water and surface water sampling. The leachate must be analyzed for all Appendix I constituents, pH, specific conductance, BOD, COD, nitrates, sulfates, and phosphates. Test results must be submitted to the Section along with groundwater and surface water test results. In the event leachate is recirculated, additional leachate sampling may be required.
 18. In the event of a leachate release from the contained unit is observed, the permittee must report the Section according to Rule 15A NCAC 13B .1604(b)(2)(L)(iii). Within 14 working days or a mutually-agreed time frame after the leachate release, the permittee must prepare a written incident report and a sampling plan to identify the impacted area due to the release followed by submitting a sampling result report to determine if the following-up correction action should be taken according to the Operations Plan (FID 1356999).
 19. Closure and post-closure activities for any landfill unit at this facility must be conducted in accordance with the approved Closure and Post-Closure Plans (DIN 25276) and applicable Rules 15A NCAC 13B .1627 & .1629.

20. Modification of the approved closure plan to construct an alternative cap system is allowed by Rule 15A NCAC 13B .1627; however, the modified closure plan must be submitted for approval at least ninety (90) days prior to closure or partial closure of any landfill unit. The plan must include all steps and measures necessary to close and maintain the landfill unit in accordance with all rules in effect at that time. At a minimum, the plan must address the following:
- a. Design of a final cover system in accordance with Rule 15A NCAC 13B.1627, or the solid waste management rules in effect at the time of closure.
 - b. Construction and maintenance/operation of the final cover system and erosion control structures.
 - c. Surface water, ground water, and explosive gas monitoring.

Part III: Construction and Demolition Debris Landfill Unit(s)

Not Applicable.

Part IV Industrial Landfill Unit(s)

Not Applicable.

Part V: Land Clearing and Inert Debris Landfill Unit(s)

Not Applicable.

Part VI: Transfer Station/Treatment & Processing Unit(s)

Not Applicable.

Part VII: Miscellaneous Solid Waste Management Unit(s)

Not Applicable.

- End of Permit Conditions -