



Facility Permit No: 84-01  
City of Albemarle Landfill  
Stanly County  
August 8, 2016  
Doc ID: 25295  
Page 1 of 22

North Carolina Department of Environment Quality  
Division of Waste Management

Pat McCrory  
Governor

Donald R. van der Vaart  
Secretary

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

**Permit No. 84-01**  
CITY OF ALBEMARLE  
is hereby issued a

**PERMIT TO CONSTRUCT**

8401-CDLF-1997

8401-MSWLF-1999, PHASE 4 - VERTICAL EXPANSION OVER PHASE 1 & 2

**PERMIT TO OPERATE**

8401-MSWLF-1999, MSW LANDFILL PHASES 1, 2, & 4

8401-CDLF-1997, CDLF UNIT ON TOP OF CLOSED MSW LANDFILL

**PERMIT FOR CLOSURE**

8401-MSWLF-1983, POST-CLOSURE CARE REQUIREMENTS FOR THE  
CLOSED UNLINED MSW UNIT

Located on NC State Road 1720, approximately 3.5 miles Southeast of the City of Albemarle, Stanly County, 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 deeds recorded for this property listed in Attachment No. 1 of this permit.

Edward F. Mussler, III, P.E., Supervisor  
Permitting Branch, Solid Waste Section  
Division of Waste Management, NCDEQ



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**ATTACHMENT 1  
 GENERAL PERMIT CONDITIONS/INFORMATION**

**PART I: GENERAL FACILITY**

**Permit to Operate Date Table**

<b>Permit</b>	<b>Status</b>	<b>Issuance</b>	<b>Expiration</b>
8401-MSWLF-1999	Active	<b>August 8, 2016</b>	<b>August 8, 2021</b>
8401-MSWLF-1981	Closed	October 13, 1983	<i>Not Applicable</i>
8401-CDLF-1997	Active	<b>August 8, 2016</b>	<b>August 8, 2021</b>

***General Conditions***

1. This permit is issued by the North Carolina Department Environmental Quality, Division of Waste Management, Solid Waste Section (Section). In accordance with North Carolina Solid Waste Management Rule 15A NCAC 13B .0201(d), a solid waste management facility permit shall have two parts: a Permit to Construct and a Permit to Operate. The Permit to Construct must be implemented in accordance with Attachment 2 of this permit. The Permit 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 survey for this facility was recorded in the Stanley County Register of Deeds on 05/13/2014 (Notice of Contaminated Site) Book 23, Pages 274 - 275.
4. When this property is sold, leased, conveyed, or transferred in any manner, the deed or other instrument of transfer shall contain in the 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 beginning 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 Solid Waste Management Rules, 15A NCAC 13B, Article 9 of the Chapter 130A of the North Carolina General Statutes (NCGS 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 plan 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. In accordance with NCGS 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 operator of the facility.
9. 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 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 Facility**

<b>Stanley County, N.C. Register of Deeds</b>			
<b>Book</b>	<b>Page</b>	<b>Property Owner</b>	<b>Acres</b>
257	547	City of Albemarle	445±
1413	274	City of Albemarle	24.84
<b>Total Site Acreage:</b>			<b>469.84±</b>

**NOTE 1:** Property acquired for Compliance Boundary requirement. "Notice of Contaminated Site." Property ID #65560147521, acquired on 07/18/2012. Only part of the property acquired was included in the permitted facility. The property not included in the facility is listed below.

<b>Stanley County NC - Register of Deeds</b>			
<b>Book</b>	<b>Page</b>	<b>Property Owner</b>	<b>Acres</b>
1413	274(2)	City of Albemarle	80.22

**NOTE 2:** Deed book references are from the Stanley County Register of Deeds office web site (3/1/2016).

**NOTE 3:** Recombination of existing surveys.

**PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)**

1. On April 8, 1998 a Permit to Construct for Phase 1 of the MSW landfill unit was issued.
2. On May 18, 1999 a Permit to Operate for Phase 1 of the MSW landfill unit was issued.
3. On May 10, 2004 a 5 year permit renewal was issued.
4. On October 25, 2007 a Permit to Operate for Phase 2 of the MSW landfill unit was issued.
5. On June 12, 2009 a Permit to Construct for Phase 2 of the MSW landfill unit was issued.
6. O **August 8, 2016** a Permit to Construct Phase 4 (vertically over Phases 1 & 2 of the MSW landfill unit) was issued.
7. On **August 8, 2016** a 5-year Permit to Operate was issued for Phases 1, 2 and 4.

No.	Permit Type	Date Issued	DIN
1	Permit to Construct Phase 1	April 8, 1998	-
2	Permit to Operate Phase 1	May 18, 1999	-
3	Permit to Operate Phase 1 (5-year permit renewal)	May 10, 2004	-
4	Permit to Construct Phase 2	October 25, 2007	3076
5	Permit to Operate Phase 1 & 2	June 12, 2009	7118
6	Permit to Construct Phases 4.	<b>August 8, 2016</b>	25295
7	Permit to Operate Phases 1, 2, & 4	<b>August 8, 2016</b>	25295

**List of Documents for Approved Plan**

No.	DIN	Description
1	-	<i>MSWLF Facility, Permit to Construct, Phase 1, City of Albemarle.</i> Prepared for the City of Albemarle. Prepared by Municipal Engineering Services. Revised August 1997.
2	-	<i>Design Hydrogeologic Study, Phase 1, City of Albemarle Subtitle D Landfill.</i> Prepared for the City of Albemarle. Prepared by Municipal Engineering Services. September 1997.
3	-	<i>Design Hydrogeologic Study, City of Albemarle, Phase 2.</i> Prepared for the City of Albemarle. Prepared by Municipal Engineering Services. September 27, 2006. Revised January 25, 2007, March 7, 2007, April 27, 2007, and May 28, 2007.
4	-	<i>MSW Landfill Facility, Permit to Construct, Phase 2, City of Albemarle, including Engineering Drawings.</i> Prepared for the City of Albemarle. Prepared by Municipal Engineering Services. November 2006. Revised July 27, 2007, August 7, 2007.
5	-	<i>Verification of Geotechnical Recommendations, City of Albemarle Landfill-Phase 2.</i> Prepared for the City of Albemarle. Prepared by ECS Carolinas, LLP. September 17, 2007.

6	-	Response to Comments. <i>City of Albemarle MSW Landfill Facility, Phase 2, Permit to Construct, Permit No. 84-01</i> . Prepared for the City of Albemarle. Prepared by Municipal Engineering Services. October 11, 2007.
7	5071	<i>Permit Application for Continued Operation, City of Albemarle Construction and Demolition Landfill Facility. Owner: The City of Albemarle, North Carolina. Submitted by Municipal Engineering Services Co., P.A. (Municipal Engineering). Dated June 2008. Document ID Number 5071.</i>
8	5116	<i>Permit Application for Continued Operation</i> . Prepared by: Municipal Engineering Services. Prepared for: City of Albemarle. June 2008.
9	6950	<i>City of Albemarle Corrective Action Plan</i> . Prepared by: Municipal Engineering Services. Prepared for: City of Albemarle. February 2009. Approved.
10	6475	<i>Application for Five-year Renewal of Permit to Operate</i> . Prepared by: Municipal Engineering Services. Prepared for: City of Albemarle. July 2008. <i>Design Hydrogeologic Study</i> . Prepared by: Municipal Engineering Services. Prepared for: City of Albemarle. Revised April 22, 2009
11	6950	<i>Leachate System Improvements Phase 1 &amp; 2 MSWLF and Revised Facility Plan</i> . Prepared by: Harbin, Newberry, and Tribble, Inc. Prepared for: City of Albemarle. April 20, 2012.
12	7117	<i>Construction and Quality Assurance Report, Municipal Solid Waste Landfill Facility - Phase 2, City of Albemarle, North Carolina</i> , prepared by Municipal Engineering Services. December, 2008, received January 26, 2009, Volume 1 and 2 and revised through April 1, 2009.
13	7325	<i>Design Hydrogeologic Study</i> . Prepared by: Municipal Engineering Services. Prepared for: City of Albemarle. Revised April 22, 2009.
14	9354	<i>Facility Plan (Revised) and Existing Conditions Drawing (Drawing No. CD1)</i> . Prepared by: Municipal Engineering Services. Prepared for: City of Albemarle. Revised January 19, 2010.
15	16484	<i>Leachate System Improvements Phase 1 &amp; 2 MSWLF and Revised Facility Plan</i> . Prepared by: Harbin, Newberry, and Tribble, Inc. Prepared for: City of Albemarle. April 20, 2012.
16	16749	<i>Operation Plan - City of Albemarle Landfill Facility</i> . Prepared by: Harbin, Newberry, and Tribble, Inc. Prepared for: City of Albemarle. August 16, 2009, Revised October 10, 2011. Final Approval June 2012 (Posi-shell added)
17	24377	<i>Application for Five-year Renewal of Permit to Operate</i> . Prepared by: Harbin, Newberry, and Tribble, Inc. Prepared for: City of Albemarle. Revised May 21, 2015. Approved.
18	24672	<i>Operation Plan - City of Albemarle Landfill Facility</i> . Prepared by: Harbin, Newberry, and Tribble, Inc. Prepared for: City of Albemarle. May 21, 2015. Approved.
19	24674	<i>Water Quality Monitoring Plan - City of Albemarle Landfill Facility</i> . Prepared by: Shield Engineering. Prepared for: City of Albemarle. May 21, 2015. Approved.
20	24675	<i>Gas Monitoring Plan - City of Albemarle Landfill Facility</i> . Prepared by: Shield Engineering. Prepared for: City of Albemarle. May 21, 2015. Approved.

**PART III: CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL UNIT(S)**

1. On December 31, 1997 a modification was made to the Permit for operation of Phases 1 & 2 of the C&D landfill unit on top of closed MSW landfill units.
2. On January 3, 2003 a modification was made to the Permit granting a one year operational extension for Phase 1 of the C&D landfill unit on top of closed MSW landfill units.
3. On November 1, 2005 a modification was made to the Permit for operation of Fill Plan 1st through 4th Years of the C&D landfill unit on top of closed MSW landfill units.
4. On June 14, 2012 an amendment was made to the Permit for continued operation of the C&D Landfill unit on top of closed MSW landfill, Area 1.
5. On **August 8, 2016** a Permit to Operate, 5-Year Renewal for Phases 1, 2, and 4 of the MSW landfill and the C&D unit on top of MSW landfill units.

**Permitting History of 8401-CDLF-**

No.	Permit Type	Date Issued	DIN
1	Permit Modification (#1 / PTO)	December 31, 1997	-
2	Permit Modification (#2 /1-year Extension):	January 3, 2003	-
3	Permit Modification (#3/ 1 - 4 year Extension). Expired January 1, 2007.	November 1, 2005	-
4	Permit Modification	June 14, 2012	8161
5	Permit to Operate, 5-Year Renewal	<b>August 8, 2016</b>	25295

**List of Documents for Approved CDLF Plan**

DIN	Description
-	Modification #1: Site and Construction Transition Plan modification application for the City of Albemarle Landfill, Permit # 84-01. Document titled "Construction and Demolition Landfill for City of Albemarle, North Carolina", dated 15 December 1997 and received 23 December 1997
-	Modification #2: Permit document dated 1 October 2002 requesting the operations of the C&D unit be extended for one year for Phase 1, per SHEET No. 1 of 5/Drawing No. E1 to an elevation of 455 feet MS.

-	<i>Construction &amp; Demolition Landfill Facility Plans</i> for the City of Albemarle by Municipal Engineering Services sheets 1 through six. Plans dated February 11, 2005 received May 5, 2005.
6475	<i>Application for Five-year Renewal of Permit to Operate Construction &amp; Demolition Landfill.</i> Prepared by: Municipal Engineering Services. Prepared for: City of Albemarle. July 2008.
7805, 8130	<i>Permit Application for Continued Operation (CDLF).</i> Prepared by: Municipal Engineering Services. Prepared for: City of Albemarle. Revised June 9, 2009, August 3, 2009.
9354	<b>Facility Plan</b> (Revised) <i>and Existing Conditions Drawing (Drawing No. CDI).</i> Prepared by: Municipal Engineering Services. Prepared for: City of Albemarle. Revised January 19, 2010.
13376	<b>C&amp;D Area Storm Water Management Improvements.</b> Prepared by: Hodges, Harbin, Newberry, and Tribble, Inc. Prepared for: City of Albemarle. February 18, 2011.

**PART IV: INDUSTRIAL LANDFILL UNIT(S)**

*Not Applicable*

**PART V: LAND CLEARING & INERT DEBRIS LANDFILL UNIT SPECIFIC CONDITIONS**

*Not Applicable*

**PART VI: TRANSFER STATION/TREATMENT & PROCESSING UNIT(S)**

*Not Applicable*

**PART VII: MISCELLANEOUS SOLID WASTE MANAGEMENT SPECIFIC CONDITIONS**

*Not Applicable*

**PART VIII: CLOSURE / POST CLOSURE SPECIFIC CONDITIONS**

<b>DIN</b>	<b>Description</b>
1955	<i>Groundwater Sampling and Statistical Analysis,</i> Prepared by Municipal Engineering Services. November 2, 2004.
5116	<i>Groundwater Corrective Action Permit Modification, Application.</i> Prepared by City of Albemarle. Prepared for City of Albemarle. June 2008.
6950	<i>Corrective Action Plan, C&amp;D (Old MSWLF 84-01</i> Prepared for the City of Albemarle. Prepared by Municipal Engineering Services. October 11, 2007.
-	<i>Corrective Action Plan, C&amp;D.</i> Prepared for the City of Albemarle. Prepared by Municipal Engineering Services. February 13, 2009.
21603	<i>North Carolina Solid Waste Groundwater Corrective Action Permit Modification Application.</i> Prepared by and for City Albemarle. Signed, June 26, 2008.

**- End of Section -**

## ATTACHMENT 2 CONDITIONS OF PERMIT TO CONSTRUCT

### **PART I: GENERAL FACILITY**

1. Construction of all solid waste management units within this facility must be in accordance with the pertinent approved plans and only for those phases of development approved for construction as described in Attachment I, Parts II – VII, List of Documents for the Approved Plan.
2. The permittee must conduct a preconstruction meeting at the facility prior to initiating construction of any unit/cell and must notify the Section at least 10 days prior to the meeting.
3. Modifications or revisions of the approved documents or changes during construction of any landfill unit/cell require approval by the Section, and may constitute a permit modification and be subject to a permitting fee.
4. Burning of land-clearing debris generated on site as a result of construction activities requires approval by the Section prior to initiating the burn. In addition, the facility must ensure the activity is in compliance with all air pollution and open burning laws, regulations, and ordinances.
5. In areas with streams and/or wetlands, the permittee shall provide to the Section the approved 404/401 from U.S. Army Corps of Engineers and/or the NCDEQ Division of Water Resources, in electronic format (pdf) prior to construction in the affected areas.

### ***Geologic, Ground Water and Monitoring Requirements***

7. Prior to issuing the Permit to Operate, samples from new ground water monitoring wells and surface water stations shall be sampled for the Appendix I constituent list.
8. Prior to construction of the phase or cell(s) within the phase, all piezometers, borings, and groundwater monitoring wells within the footprint must be properly abandoned in accordance with the Abandonment of Wells provisions specified in 15A NCAC 2C .0113 (b)(1) and 15A NCAC 2C .0113 (d).
9. 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.
10. A Licensed Geologist must supervise installation of groundwater monitoring wells and surface water sampling stations.
11. Any modification to the approved water quality monitoring, sampling, and analysis plan must be submitted to the Section Hydrogeologist for review.

12. Within 30 days of completed construction of each new groundwater 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.
13. 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.
14. 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.
15. All forms, reports, maps, plans, and data submitted to the Section must include an electronic copy.

***Erosion and Sedimentation Control Requirements***

16. 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.
17. All earth disturbing activities must be conducted in accordance with the Sedimentation Pollution Control Act of 1973 (15 NCAC 4) and consistent with any other local, state or federal requirements.
18. 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.
19. Modifications to the approved sedimentation and erosion control activities require approval by the North Carolina Land Quality Section. The Solid Waste Section must be notified of any sedimentation and erosion control plan modifications.

**PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)**

1. The issuance date for this Permit to Construct is **August 8, 2016**. The initial, substantial, construction authorized by this Permit to Construct must commence within 18 months from the issuance date of this permit. If substantial construction does not begin within 18 months from the issuance date of this permit, then the permit to construct shall expire. Substantial construction includes, but is not limited to, issuance of construction contracts, mobilization of equipment on site, and construction activities including installation of sedimentation and erosion control structures. The permittee may reapply for the permit to construct prior to the expiration date. The re-application will be subject to the statutes and rules in effect on that date and may be subject to additional fees.
2. Pursuant to the NC Solid Waste Management Rules (Rule) 15A NCAC 13B .0201(c) and (d)(1), this permit approves Phase 4, consisting of vertical expansion over Phases 1 & 2 with a projected gross capacity of 1,291,213 cubic yards, as described in Attachment I, Part III, List of Documents for the Approved Plan.
3. Pursuant to Rule 15A NCAC 13B .0542(i)(2), burning of land-clearing debris generated on-site as a result of construction activities requires approval by the Section prior to initiating the burn. In addition, the Division of Air Quality and local fire department must approve the activity prior to burning.
4. This condition is deleted as the Permit to Operate is included in this Permit.

**PART III: CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL UNIT(S)**  
*Not Applicable*

**PART IV: INDUSTRIAL LANDFILL UNIT(S)**  
*Not Applicable*

**PART V: LAND CLEARING & INERT DEBRIS LANDFILL UNIT(S)**  
*Not Applicable*

**PART VI: TRANSFER STATION/TREATMENT & PROCESSING UNIT(S)**  
*Not Applicable*

**PART VII: MISCELLANEOUS SOLID WASTE MANAGEMENT**  
*Not Applicable*

**- End of Section-**

### ATTACHMENT 3 CONDITIONS OF PERMIT TO OPERATE

#### **PART I: GENERAL FACILITY**

1. The Permit to Operate shall expire **August 8, 2021**. Pursuant to 15A NCAC 13B.0201(g), no later than **February 8, 2021**, the owner or operator must submit a request to the Section for permit review prepared in accordance with Section .1603(a)(2) or (3) as applicable, and must update pertinent facility plans including, but not limited to, the facility operation and waste screening plans.
2. 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.
3. The edge of the waste footprint for all disposal units must be identified with permanent physical markers.
4. Financial assurance as required by state rules and statutes must be continuously maintained for the duration of the facility in accordance with applicable rules and statutes. Closure and Post-Closure cost estimates and financial instruments must be updated annually.
5. Closure or partial closure of any unit must be in accordance with the Closure Plans described in the approved plans and applicable rules and statutes. Revised Closure Plans must be submitted to the Division at least 90 days prior to implementation.

#### ***Operational Requirements***

6. This facility is permitted to receive non-hazardous solid waste generated within Stanly County, consistent with the local government waste management plan and with local government approval and as defined in G.S. 130-290 (a)(18a) and (35), except where prohibited by the N. C. General Statutes Article 9 of Chapter 130A, and the rules adopted by the Commission for Health Services.
7. The facility operator must complete an approved operator training course in compliance with 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 to ensure compliance with operational requirements.
  - b. All pertinent landfill-operating personnel must receive training and supervision necessary to properly operate the landfill units in accordance with G.S. 130A-309.25 and addressed by memorandum dated November 29, 2000.
8. Alternative daily cover materials and methods must be used in accordance with the approved plans and Solid Waste Section guidelines. Any alternative daily cover materials or methods not previously approved by the Section require review and approval before use. In these cases, a request for use must include a plan detailing the comprehensive use

and a demonstration of the effectiveness of the alternative daily cover. The plan must be developed according to Section guidelines. Plans which are approved by the Section will be incorporated into, and made a part of, the approved documents listed in Attachment 1.

- a. Synthetic Cover as per the Permit to Construct Phase 2 Application (5.4 Appendix II, page 140) has been approved by the Section. Soil cover or Posi-shell shall be applied at a minimum of one time per week in accordance with Rule .1626 (2). Soil shall be applied more frequently, if needed, to control disease vectors, fires, odors, blowing litter and scavenging.
  - b. Posi-shell as per the demonstration project approved by the Solid Waste Section.
9. The facility must maintain records for all solid waste materials accepted as alternative cover material and used as alternate daily cover. 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 Solid Waste Section upon request.

#### ***Monitoring and Reporting Requirements***

10. Groundwater, surface water, and landfill gas monitoring locations must be established and monitored as identified in the approved plans.
11. A licensed geologist must be present to supervise the installation of groundwater monitoring wells. The exact locations, screened intervals, and nesting of the wells must be established after consultation with the SWS Hydrogeologist at the time of well installation.
12. Ground water monitoring wells and surface water sampling locations must be sampled for Appendix I constituents at least semi-annually according to the specifications outlined in the approved water quality monitoring plan and the current policies and guidelines of the Section in effect at the time of sampling.
13. Landfill gas monitoring wells must be sampled for explosive gases at least quarterly and according to specifications outlined in 15A NCAC 13B.544(d), entitled "Gas Control Plan", and current policies and guidelines of the Section in effect at the time of sampling.
14. Reports of the analytical data for each monitoring event must be submitted to the Section within 120 days of the respective sampling event. Analytical data must be submitted in a manner prescribed by the Section. Records of all groundwater, surface water, and leachate analytical data must be kept as part of the permanent facility record.
15. Untreated leachate must be sampled and analyzed at least semi-annually concurrently with the groundwater water and surface water sampling, one sample per event. 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.

16. A readily accessible unobstructed path must be cleared and maintained so that four-wheel vehicles may access monitoring well locations at all times.
17. A field log book which details all development, sampling, repair, and all other pertinent activities associated with each monitoring well and all sampling activities associated with each surface water and leachate sampling location must be kept as part of the permanent facility record.
18. All well construction records and soil boring logs for new wells must be submitted to the Solid Waste Section Hydrogeologist for review within 30 days of completion.
19. Copies of this permit, the approved plans, and all records required to be maintained by the permittee must be maintained at the facility and made available to the Section upon request during normal business hours.
20. The owner or operator must maintain a record of the amount of solid waste received at the landfill unit, compiled on a monthly basis. Scales must be used to weigh the amount of waste received.
21. 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 May 18, 1999 for MSWLF and December 31, 1997 for the CDLF landfills through the date of the annual volume survey must be included in the report.
  - e. The completed report must be forwarded to the Regional Waste Management Specialist for the facility by the date due on the prescribed annual facility report form.
  - f. 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 Waste Management Specialist by the date due on the prescribed annual facility report form

**PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)**

1. The Permit to Operate shall August 8, 2021. Pursuant to 15A NCAC 13B .0201(e), no later than February 8, 2021. the owner or operator MSWLF or must submit a request to the Section for permit review and must update pertinent facility plans including, but not limited to, the facility operation and waste screening plans.
2. The following table lists the dimensions and details for the MSW landfill units. The following waste volumes include waste, daily cover, and intermediate cover, but do not include final cover.

<b>MSW Phase</b>	<b>Acres</b>	<b>Gross capacity (cubic yards)</b>
Phase 1	16.0	683,555
Phase 2	15.6	765,635
Phase 3	13.6	1,081,734
Phase 4	N/A*	1,291,213
Phase 5	N/A *	1,148,705
<b>Total</b>	<b>45.2</b>	<b>4,970,842</b>

\* Phase 4 is a Vertical expansion over Phases 1 and 2.

\* Phase 5 is a Vertical expansion over Phases 3 and 4.

3. This permit approves the operation of Phase 1, 2 & 4 as well as the onsite environmental management and protection facilities as described in the approved plans.
4. The facility is approved to accept approximately 4159 tons per month, and increasing by 3.6 % each year (starting in 2008); thereafter, with a maximum variance in accordance with GS 130A-294(b1)(1) as listed in Attachment 1, Part II.
5. The following, at a minimum, must not be accepted for disposal at the facility: hazardous waste, yard trash, liquid wastes, regulated medical waste, sharps not properly packaged, PCB waste as defined in 40 CFR 761, and wastes banned from disposal in North Carolina by G.S. 130A-309.10(f).
6. The permittee must not knowingly dispose of any type or form of municipal solid waste that is generated within the boundaries of a unit of local government that by ordinance:
  - a. Prohibits generators or collectors of municipal solid waste from disposing of that type or form of municipal solid waste.
  - b. Requires generators or collectors of municipal solid waste to recycle that type or form of municipal solid waste.
7. The use of leachate recirculation as a leachate management tool has been approved for Phase 1 only. Leachate recirculation will be conducted in accordance with the approved documents listed in Attachment 1, Part II.

8. The facility is permitted to co-dispose of wastewater treatment sludge generated within the facility's approved service area, and subject to the terms and procedures of the approved plan.
9. The leachate collection system must be maintained in accordance with 15A NCAC 13B.1626(12)(a). The Operation plan shall include provisions for periodic cleaning and visual inspection. Documentation of the inspections, and cleaning and monitoring must be included in the operating records of the facility and provided to the Department upon request.
10. Financial assurance as required by state rules and statutes must be continuously maintained for the duration of the facility in accordance with applicable rules and statutes. Closure and Post-Closure cost estimates and financial instruments must be updated annually pursuant to 15A NCAC 13B .1628.
11. Closure or partial closure of any MSWLF unit must be in accordance with the Closure Plans described in the approved plans and 15A NCAC 13B .1629. Final Closure Plans must be submitted to the Division at least 90 days prior to implementation.
12. Prior to disposal in a new cell or Phase previously separated from the active disposal cell by rainwater and leachate separation devices involving rainwater flaps welded to the liner and/or disconnected leachate lines, a construction certification shall be placed in the facility operating record. The certification must describe the proper removal of temporary rainwater devices and reconnection of leachate collection lines in accordance with the approved documents listed in Attachment 1, Part II. The document must also contain a statement of certification by the facility's trained landfill operator, N. C. registered professional engineer, or other person approved by the Section, that the construction was properly completed according to the approved plans.

**PART III: CONSTRUCTION and DEMOLITION DEBRIS LANDFILL UNIT  
 SPECIFIC CONDITIONS**

1. This permit approves operation of Area 1 as well as the onsite environmental management and protection facilities as described in the approved plans
2. 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.
3. The amount of waste, in tons from records, disposed in landfill cells from December 31, 1997 through the date of the annual volume survey must be included in the report.
4. The following, at a minimum, must not be accepted for disposal at the C&D facility: hazardous or municipal waste, yard trash, liquid wastes, regulated medical waste, sharps not properly packaged, PCB waste as defined in 40 CFR 761, and wastes banned from disposal in North Carolina by G.S. 130A-309.10(f).
5. The facility is approved to accept approximately 5825 tons per month (as of 7/1/2008), and increasing by 3.6 % each year; thereafter, with a maximum variance in accordance with GS 130A-294(b1)(1) as listed in Attachment 1, Part II.

<b>C&amp;D Unit</b>	<b>Acres</b>	<b>Gross Capacity (cubic yards)</b>	<b>Status</b>
Area 1	33.8	2,390,900	Active
Area 2	8.8	N/A	Future
Area 3	16.4	N/A	Future
Area 4	18.0	N/A	Future
<b>Total</b>	<b>77.0</b>	<b>2,390,900</b>	

**PART V: LAND CLEARING & INERT DEBRIS LANDFILL UNIT(S)**  
*Not Applicable*

**PART VI: TRANSFER STATION/TREATMENT & PROCESSING UNIT(S)**  
*Not Applicable*

## **PART VII: MISCELLANEOUS SOLID WASTE MANAGEMENT**

### ***General Conditions***

1. Wastes received and product stored shall be maintained in reasonably sized piles with adequate fire breaks and lanes in accordance with the approved operational plans and the pertinent rules.
2. Surface water shall be diverted from all operational and storage areas to prevent standing water in operational areas and under or around storage piles. Water that comes in contact with solid waste shall be contained on-site or properly treated prior to discharge.
3. These areas shall be operated and maintained with sufficient dust control measures to minimize airborne emissions and to prevent dust from becoming a nuisance or safety hazard.
4. These areas shall be operated and maintained in a manner so as to minimize odors, prevent the creation of a nuisance, potential health hazard, or a potential fire hazard.
5. Effective vector control measures shall be applied as necessary to control flies, rodents, insects, or vermin.

### ***Operational Conditions – White Goods***

6. The facility is permitted to receive white goods as defined in North Carolina General Statute Article 9, Chapter 130A-290(44).
7. The facility must manage white goods according to the Operation Plan included in Attachment 1, Part II "List of Documents for the Approved Plan". This document is included in the approved plan. Any revisions to the approved plan shall be approved by the North Carolina Division of Waste Management (DWM), Solid Waste Section, prior to implementation.
8. White goods collection areas shall provide for the proper removal of chlorofluorocarbon refrigerants.

### ***Operational Conditions – Scrap Tires***

9. The facility is permitted to receive tires and scrap tires as defined in North Carolina General Statute Article 9, Chapter 130A-309.53(6) & (7).
10. Scrap tire collection areas shall be operated in accordance with the requirements of 15A NCAC 13B.1107.
11. The facility must manage tires according to the Operation Plan included in Attachment 1, Part II, "List of Documents for the Approved Plan". This document is included in the approved plan. Any revisions to the approved plan shall be approved by the North Carolina Division of Waste Management (DWM), Solid Waste Section, prior to implementation.

***Operational Conditions – Treatment & Processing (Wood Grinding)***

12. The facility is permitted to operate a treatment and processing facility as defined in 15A NCAC 13B.0101(49).
13. The facility is permitted to receive land clearing waste as defined in 15A NCAC 13B.0101(23).
14. The facility is permitted to receive wooden pallets constructed of unpainted and untreated natural wood.
15. The facility is permitted to receive yard trash as defined in 15A NCAC 13B.0101(55). However, this ground material containing yard trash may not be distributed to the public unless it has been composted in accordance with 15A NCAC 13B.1400.
16. The facility must manage the treatment and processing according to the Operation Plan included in Attachment 1, Part II: "List of Documents for the Approved Plan". This document is included in the approved plan. Any revisions to the approved plan shall be approved by the Section, prior to implementation.

***Operational Conditions – Type 1 Composting Unit***

17. The facility is permitted to operate a compost facility as defined in 15A NCAC 13B.0101(7).
18. The facility is only permitted to receive waste materials described in 15A NCAC 13B.1402(f)(1).
19. The facility must monitor and maintain records to demonstrate the requirements of 15A NCAC 13B.1406 are continually being met. In addition, the facility is required to maintain records on the following information:
  - a. The amount of waste received into the facility,
  - b. The amount of compost land applied as a soil amendment,
  - c. The area of land compost was applied to as a soil amendment, and
  - d. The amount and final termination of any remaining compost.

***- End of Section -***

## **ATTACHMENT 4 CONDITIONS OF PERMIT FOR CLOSURE & POST CLOSURE**

### **PART I: GENERAL FACILITY**

1. Closure or partial closure of any landfill unit must be in accordance with the closure plans described in the approved plans. Proposed changes to the approved closure plans must be submitted to the Section at least 90 days prior to implementation.
2. Closure construction quality assurance reports must be submitted to the Section at least annually and maintained in the operating record of the facility.
3. Final closure of the landfill and initiation of the 30-year post-closure period commences upon the engineer's certification that the closure of the fill is complete.
4. Post-closure use of the property must not disturb the integrity of the cap system, base liner system, or any other components of the containment system or the function of the monitoring systems. The Section may approve disturbance if the constructor or operator demonstrates that disturbance of the cap system, base liner system, or other component of the containment system will not increase the potential threat to public health, safety, and welfare; the environment; and natural resources.
5. The owner must provide post-closure care and monitoring for all the landfill units. After at least 30 years of post-closure care and monitoring, the landfill owner may submit a written request to modify or discontinue post-closure care and monitoring, depending upon the results of the previous monitoring. However, the owner must continue to conduct water quality monitoring, and post-closure care until the Section provides written approval to discontinue monitoring and/or post-closure care.
6. The current operating 8401-CDLF-1997 overlays the closed 8401-MSWLF-1983. The MSWLF stopped receiving waste before October 9, 1991.
7. The landfill owner must maintain the integrity and effectiveness of the cap system, including making repairs to the cover as necessary to correct the effects of settlement, subsidence, erosion, or other events, and prevent surface water from impounding over waste and run-on and run-off from eroding or otherwise damaging the cap system. Mowing of vegetation on the landfill cover is required at least once per year. Trees on the final cover must be removed at least once per year.
8. The owner must maintain permanent markers that accurately identify the edge of the waste disposal boundary.
9. Public access to the landfill must be prevented by gates, fences, and/or other measures. The owner must maintain the public access preventive measures during the post-closure period.
10. Any post-closure use of the property, including but not limited to, residential, commercial, industrial, agricultural, or recreational use, is subject to review and approval by the Section and must not disturb the integrity of the cap system, or the function of the monitoring

systems. The Section may approve any other disturbance if the owner or operator submits a modified post-closure plan which describes the planned use of the property and demonstrates that disturbance of the cap system, including any removal of waste, will not increase the potential threat to human health or the environment. Post-closure uses approved by the Section will be included in the List of Approved Documents.

11. 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. 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.
12. The owner or operator must ensure that the landfill units do not violate any applicable requirements developed under a State Implementation Plan approved or promulgated by the U.S. EPA Administrator pursuant to Section 110 of the Clean Air Act, as amended.

#### ***Monitoring and Reporting Requirements***

13. Groundwater quality at the facility is subject to “Classifications and Water Quality Standards Applicable to the Groundwater’s of North Carolina,” 15A NCAC 2L. This includes, but is not limited to, the provisions for detection monitoring, assessment, and corrective action.
14. Ground water monitoring wells and surface water sampling location(s) must be sampled on a semi-annual basis, in accordance with the current policies and guidelines of the Section in effect at the time of sampling, unless otherwise specified by the Section. Any proposed modification to an approved plan must be submitted to the Section and approved prior to implementation. Sampling equipment and methods must conform to specifications in the “Solid Waste Section Guidelines for Groundwater, Soil, and Surface Water Sampling,” dated April 2008, available on the Section website.
15. Monitoring reports of the analytical results for surface water and groundwater monitoring 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 or tiff) 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 that also includes surface water sampling locations,
  - b. analytical laboratory reports and summary tables,
  - c. a completed Solid Waste Environment Monitoring Data Form, and
  - d. laboratory data submitted in accordance with the EDD Template.
16. The owner must maintain the integrity of all groundwater monitoring wells, including making repairs to well heads, covers, and surface pads, during the post-closure period.
17. A readily accessible unobstructed path must be maintained so that groundwater wells and surface water sampling locations are accessible using four-wheel drive vehicles.

18. Each groundwater monitoring well must be surveyed for location and elevation. Each groundwater monitoring well must have an identification plate permanently attached to the well, in accordance with 15A NCAC 2C .0108(o).
19. If a new well is required to be installed, either to add to the network or to replace an existing well, or if a well is required to be abandoned:
  - a. The permittee must obtain approval from the Section for the design, installation, and abandonment of any groundwater well. A licensed geologist must be present to supervise the installation of groundwater monitoring wells. The exact locations, screened intervals, and nesting of the wells must be established after consultation with the Section Hydrogeologist at the time of well installation.
  - b. Within 30 days of completed construction of each new groundwater well, a well construction record, well schematic, boring log, field log and notes, and description of well development activities must be submitted to the Section. Form GW-1 must be used for both groundwater wells. The submittal must also include a scaled topographic map, showing the location and identification of new, existing, and abandoned wells and piezometers, and hydraulic conductivity and effective porosity values.
  - c. Hydraulic conductivity and effective porosity values must be established for each screened interval at each monitoring well in order to develop groundwater flow characteristics.
  - d. Within thirty (30) days of the abandonment of any groundwater monitoring well, the well abandonment record (GW-30 form) and any additional information included in the abandonment record must be certified by a Licensed Geologist, and submitted to the Section. A copy of the well abandonment records submitted to the Division of Water Quality, consistent with 15A NCAC 2C .0114(b), must be submitted to the Section.

***Reporting and Recordkeeping***

20. Documentation of well completion, development details, repair, abandonment, and all other pertinent activities associated with each groundwater monitoring well must be maintained in the facility operating record. The permittee must maintain a record of all groundwater, surface water, monitoring events and analytical data in the operating record.
21. Copies of this permit, the approved plans, and all records required to be maintained in the operating record by the permittee must be maintained at a location approved by the Section and made available to the Section upon request during normal business hours.
22. 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)**  
*Not Applicable*

**PART III: CONSTRUCTION AND DEMOLITION DEBRIS 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**  
*Not Applicable*

*- End of Permit Conditions -*