

North Carolina Department of Environmental 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.s 0201 and 0202

ALEXANDER COUNTY

is hereby issued a

PERMIT TO CONSTRUCT

Not Applicable

PERMIT TO OPERATE

0201-CDLF-1997, Alexander County CDLF
0202T-TRANSFER-1998, Alexander Co. Transfer Station

PERMIT FOR CLOSURE

0201-MSWLF-1979, Alexander County Landfill

Located at 2500 *Paynes Dairy Road, near the Town of Taylorsville, Alexander 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 deeds recorded for this property listed in Attachment 1 of this permit.

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

 Nothing ComparesSM

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ATTACHMENT 1
GENERAL PERMIT CONDITIONS/INFORMATION

PART I: GENERAL FACILITY

Permit to Operate Date Table

Permit	Status	Issuance	Expiration	DIN
0202T-TRANSFER-1998, Alexander Co. Transfer Station	Active	August 30, 2016	December 22, 2020	26659
0201-CDLF-1997, Alexander County CDLF	Active	August 30, 2016	November 10, 2020	26659
0201-MSWLF-1979, Alexander County Landfill	Closed	<i>Not Applicable</i>	<i>Not Applicable</i>	26659

General Conditions

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 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 Notice of Contaminated Site for this facility, was recorded in the Alexander County Register of Deeds on November 13, 2012, in Book 13, Pages 142. DIN 26000.
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 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

Alexander County, NC Register of Deeds			
Book	Page	Property Owner	Acres
13	142	Alexander County	282.84±
Total Site Acreage: 282.84± acres			

PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)

0201-MSWLF-1979, Alexander County Landfill

Permitting History

Permit Type	Date Issued	DIN
Permit to Operate, Original Issuance	November 19, 1997	10675
Permit to Operate, Amendment	September 5, 1991	10676
Permit to Operate, Interim	May 24, 1996	25999

List of Documents for Approved Plan

The descriptions of previous/historical documents may be found in the Permit to Operate, Interim issued May 24, 1996 (DIN 25999).

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

0201-CDLF-1997, Alexander County CDLF

Permitting History

Permit Type	Date Issued	DIN
Permit to Operate, Original Issuance	December 31, 1997	10669
Permit to Operate, Amendment	December 22, 2005	10644
Permit to Operate, Amendment	November 10, 2010	9021
Permit to Operate, Amendment	August 30, 2016	26659

List of Documents for Approved Plan

The descriptions of previous/historical documents may be found in the Permit to Operate issued November 10, 2010 (DIN 9021).

DIN	Description
13596	<i>Corrective Action Evaluation Report.</i> Prepared for Alexander County. Prepared by MESCO. March 2011.
19042	<i>Notice and Declaration of Perpetual Land Use Restrictions.</i> Prepared by NCDENR. November 2012.
19362	<i>Corrective Action Plan Addendum, Compliance Boundary (Relevant Point of Compliance), MW-16 Area of Concern, Alexander County C&D Over MSW Landfill, Solid Waste Permit No. 02-01, MESCO Project No. G13061.0.</i> Prepared for Alexander County. Prepared by MESCO. May 2013.
20137	<i>Request for Appendix II Groundwater Monitoring Modification.</i> Prepared for Alexander County. Prepared by MESCO. November 2013.
20921	<i>Operations Plan for Sorting Tear-Off Asphalt Shingles for Recycling.</i> Prepared for Alexander County. Prepared by MESCO. April 2014.
25450	<i>Annual Confirmation of Perpetual Land Use Declaration Recordation and Compliance.</i> Prepared by Alexander County. December 2015
26084	<i>Alexander County, Construction and Demolition Landfill, Operations Plan.</i> Prepared for Alexander County. Prepared by MESCO. Revised January 2016 and May 2016.
26613	<i>Water Quality Monitoring Plan.</i> Prepared for Alexander County. Prepared by MESCO. August 2016.
26614	<i>Landfill Gas Monitoring Plan.</i> Prepared for Alexander County. Prepared by MESCO. August 2016.

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)

0202T-TRANSFER-1998, Alexander Co. Transfer Station

Permitting History

Permit Type	Date Issued	DIN
Permit to Construct, original issuance	July 30, 1997	26660
Permit to Operate, original issuance	May 12, 1998	26661
Permit to Operate, amendment	December 22, 2005	26662
Permit to Operate, amendment five (5) year renewal	December 22, 2010	12544
Permit to Operate, amendment five (5) year renewal	August 30, 2016	26659

List of Documents for Approved Plan

The descriptions of previous/historical documents may be found in the Permit to Operate issued December 22, 2005 (DIN 26662).

DIN	Description
12434	<i>Alexander County Solid Waste Transfer Station, Permit # 02-02T, Operation Plan. Prepared for Alexander County. Prepared by MESC. Revised December 2010.</i>
26663	<i>Alexander County Solid Waste Transfer Station, Permit #02-02T, Operations Plan. Prepared for Alexander County. Prepared by MESCO. January 2016.</i>
26086	<i>Alexander County MSW Transfer Station Facility Plan. Prepared for Alexander County. Prepared by MESCO. May 2016.</i>

PART VII: MISCELLANEOUS SOLID WASTE MANAGEMENT

Not Applicable

- End of Section-

ATTACHMENT 2
CONDITIONS OF PERMIT TO CONSTRUCT

PART I: GENERAL FACILITY

Not Applicable

PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)

Not Applicable

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

Not Applicable

- End of Section -

ATTACHMENT 3 CONDITIONS OF PERMIT TO OPERATE

PART I: GENERAL FACILITY

1. All sedimentation and erosion control activities must be conducted in accordance with the Sedimentation Control Act NCGS 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 during the service life of the facility.
2. 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.
3. 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 the facility, unless otherwise approved by the Section, and made available to the Section upon request during normal business hours.
4. All forms, reports, maps, plans, and data submitted to the Section must include an electronic (pdf) copy.
5. Open burning of solid waste is prohibited. Fires must be reported to the Regional Waste Management Specialist within twenty-four (24) hours of the occurrence with a written notification to be submitted within fifteen (15) calendar days of the occurrence. Fire lanes must be maintained and passable at all times. Dimensions of the fire lanes must be coordinated with the Fire Marshall having jurisdiction over the site.
6. Processing of materials, shredding, or grinding must not take place at the facility unless approval has been granted under the special use permit and a revised operations plan has been submitted to the Solid Waste Section.
7. The facility must be adequately secured by means of gates, chains, berms, fences, or other security measures approved by the Section to prevent unauthorized entry.
8. Interior roadways must be of all-weather construction and maintained in good condition.
9. Signs must be posted at the entrance to the facility that state that no hazardous waste or liquid waste can be received at the facility; and provide information on handling procedures, hours of operation, the permit number, and other pertinent information. Traffic or markers must be provided as necessary to promote an orderly traffic pattern to maintain efficient operating conditions.
10. The permittee must at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing

and training, and adequate laboratory and process controls, including appropriate quality assurance procedures.

11. In the event of noncompliance with the permit, the permittee must take all reasonable steps to minimize releases to the environment, and must carry out such measures as are reasonable to prevent adverse impacts on human health or the environment.

PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)

Not Applicable

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

General Conditions

12. The permittee must maintain permanent markers that accurately identify the edge of the approved waste disposal boundary. The boundaries of both the C&DLF unit and the closed MSWLF unit must be marked.
13. The C&DLF is permitted to receive the following waste types:
 - a. "Construction or demolition debris" as defined in NCGS 130A-290 (a)(4) means solid waste resulting solely from construction, remodeling, repair or demolition operations on pavement, buildings, or other structures, but does not include inert debris, land-clearing debris or yard debris.
 - b. "Inert debris" as defined in NCGS 130A-290 (a)(14) means solid waste that consists solely of material such as concrete, brick, concrete block, uncontaminated soil, rock, and gravel.
 - c. "Land-clearing debris" as defined in NCGS 130A-290 (a)(15) means solid waste that is generated solely from land-clearing activities, limited to stumps, trees, limbs, brush, grass, and other vegetative material.
 - d. "Asphalt" in accordance with NCGS 130-294(m).
14. 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 15 NCAC 13B .0542 (c).
15. Those wastes listed in 15A NCAC 13B .0542 (e) must not be accepted for disposal, including, but not limited to, hazardous waste, municipal solid waste, liquid waste, commercial or industrial wastes, and yard trash.
16. Wastewater treatment sludge is not approved for disposal. Wastewater treatment sludge may be accepted, with the approval of the Section, for utilization as a soil conditioner and incorporated into or applied onto the vegetative growth layer. The wastewater treatment sludge must not be applied at greater than agronomic rates nor to a depth greater than six inches.

17. The permittee must not knowingly dispose of C&D waste that is generated within the boundaries of a unit of local government that by ordinance:
 - a. Prohibits generators or collectors of C&D waste from disposing of that type or form of C&D waste.
 - b. Requires generators or collectors of C&D waste to recycle that type or form of C&D waste.
18. The facility operator must complete an approved operator training course in compliance with NCGS 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 C&DLF in accordance with NCGS 130A-309.25 and addressed by memorandum dated November 29, 2000.
19. The permittee must actively employ a training and screening program at the facility prepared in accordance with Section .0544(e) 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, MSW, or other excluded or unauthorized wastes. The plan must address identification, removal, storage, and final disposition of these wastes.
20. Financial assurance must be continuously maintained for the duration of the facility in accordance with Rules 15A NCAC 13B .0547 (4)(e), 15A NCAC 13B .1628, and NCGS130A-295.2(h). During the active life of the C&DLF, the owner and operator must annually adjust the cost estimates including closure and post-closure activities for inflation within 60 days prior to the anniversary date of the establishment of the financial instrument(s).
21. The permittee must maintain records of:
 - a. The amount of all accepted solid waste materials as (i) C&D wastes, (ii) alternative cover material used as alternate periodic cover, and (iii) recyclable material.
 - b. Daily records of waste received, and origins of the loads.Scales must be used to weigh the amount of waste received. The daily records are to be summarized into a monthly report for use in the required annual reports.

Monitoring and Reporting Requirements (CDLF over closed MSWLF)

22. Groundwater and surface water monitoring must be conducted in compliance with Rules 15A NCAC 13B .1630 through .1637, and .0602, and the approved monitoring plan. Any proposed modification to an approved plan must be submitted to the Section and approved prior to implementation.

23. Groundwater quality is subject to 15A NCAC 2L – Groundwater Classifications Standards and the Groundwater Protection Standards (GPS) established under Rule .1634(i). Surface water is subject to 15A NCAC 2B – Surface Water and Wetlands Standards.
24. Ground water wells and surface water locations as specified in the documents for the approved plan comprise the approved groundwater and surface water monitoring network for the facility.
 - a. The permittee must obtain approval from the Section for the design, installation, and abandonment of any monitoring well or corrective action program well.
 - b. A licensed geologist must be present to supervise the installation of groundwater monitoring wells and corrective action program wells. The exact locations, screened intervals, and nesting of the wells must be established after consultation with the Section Hydrogeologist prior to well installation.
 - c. Each groundwater monitoring well and corrective action program well must be surveyed in accordance with 15A NCAC 13B .1632 (d)(1).
 - d. Each groundwater monitoring well and corrective action program well must have an identification plate permanently attached to the well, in accordance with 15A NCAC 2C .0108(o).
 - e. Hydraulic conductivity and effective porosity values must be established for each screened interval in order to develop groundwater flow characteristics.
 - f. Within thirty (30) days of completed construction of each new groundwater monitoring well and corrective action program well, the well construction record (GW-1b form), well schematic, boring log, field log and notes, and description of well development activities must be submitted to the Section. 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, as described in subparagraphs c and e of this Permit Condition.
 - g. Within thirty (30) days of the abandonment of a groundwater monitoring well or corrective action program well, the well abandonment record (GW-30 form) and any additional information included in the abandonment record must be submitted to the Section, consistent with 15A NCAC 2C .0114(b), and must be certified by a Licensed Geologist.
 - h. Documentation of well completion, development details, repair, abandonment, and all other pertinent activities associated with each monitoring well and corrective action program well must be maintained in the facility operating record.
 - i. A readily accessible, unobstructed path must be maintained so that monitoring wells, corrective action program wells, and surface water sampling locations are accessible using four-wheel drive vehicles.
25. The permittee must sample groundwater monitoring wells and surface water locations semi-annually unless otherwise specified by the Section. Water samples must be analyzed for constituents listed in Appendix I of 40 CFR Part 258, mercury, chloride, manganese, sulfate, iron, specific conductance, pH, temperature, alkalinity, and total dissolved solids. Sampling

frequency and sampling constituents are subject to change according to requirements of the applicable corrective action program.

26. Monitoring reports of the analytical results for surface water and groundwater monitoring sampling events, and for corrective action program monitoring, must be submitted to the Section within 120 days of the sample collection date. Analytical laboratory data must be submitted in electronic portable document 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. statistical analysis of laboratory data, in accordance with 15A NCAC 13B .1634,
 - d. a completed Solid Waste Environment Monitoring Data Form, and
 - e. laboratory data submitted in accordance with the EDD Template.
27. All groundwater, surface water, corrective action program, and methane gas monitoring forms, reports, maps, plans, data, and correspondence submitted to the Section must include an electronic (pdf) copy.
28. The permittee must maintain a record of all monitoring events and analytical data in the operating record.
29. After completion of the post-closure monitoring period, in accordance with 15A NCAC 13B .1627, and completion of the corrective action program, the Section will determine if further monitoring and post-closure maintenance will be required.

Groundwater Corrective Action Program Requirements (CDLF over closed MSWLF)

30. Pursuant to Rule 15A NCAC 13B .1637, the permittee must implement a corrective action program to remediate elevated constituents in groundwater in accordance with the approved Corrective Action Plan (CAP). Any proposed modifications to the approved CAP must be submitted to the Section and approved prior to implementation. The CAP documents are among the list of documents for the approved plan.
31. The Bioremediation performance monitoring network consists of the monitoring wells. Sampling frequency and constituents to be analyzed must be conducted in accordance with the approved CAP. The CAP documents are among the list of documents for the approved plan.
32. Institutional controls (deed recordation, land and groundwater use restrictions) must be implemented as part of a groundwater treatment system consisting of MNA pursuant to NCGS 143B-279.9 and 143B-279.10. The land and groundwater use restrictions will be imposed on the permitted facility and any buffer property that has been acquired to reduce or eliminate the danger to public health or the environment posed by the presence of contamination on the property. The permittee must submit to the Section, within 180 days of notified to do so, a survey plat, in accordance with the requirements of NCGS 143B-279.10, and as directed by the Section.

33. The permittee must provide a Corrective Action Evaluation Report to describe of the performance and effectiveness of the implemented corrective action program, including a technical evaluation of Bioremediation as a remedy at the facility. The first report must be submitted in accordance with the list of documents for the approved plan. Subsequent reports are required every 5 (five) years unless otherwise specified by the Section.
34. After the MNA baseline has been established, an EPA approved MNA screening model is required at least annually to simulate the groundwater remediation at the facility and determine the mass flux and mass balance. The model must be submitted annually with a monitoring report.
35. If the objectives of the corrective action program are not being met, as specified in the approved CAP, Rules, or as determined by the Section, the permittee must immediately implement the Contingency Plan in the approved CAP.
36. If constituents in groundwater migrate beyond the landfill property boundary, or it is suspected to have occurred based on sampling results near the property boundary, the permittee must immediately notify all persons in writing who own land or reside on land that directly overlies any part of the contaminant plume with details of the migration. The permittee must mitigate further releases to the groundwater, reduce threats to human health and the environment, and immediately implement the Contingency Plan in the approved CAP.
37. If the corrective action program is modified to include an active groundwater treatment system:
 - a. The permittee must operate the groundwater treatment system in a manner that will prevent spills, releases or other adverse effects to human health and the environment.
 - b. The permittee must maintain an inspection schedule for the inspection of all parts of the groundwater treatment system as outlined in the approved CAP.
 - c. The permittee must train all personnel operating the groundwater treatment system as outlined in the approved CAP.
 - d. The permittee must sample the groundwater in the impacted aquifer, the groundwater as it enters and exits the groundwater treatment system and measure the volume and rate of flow of groundwater through the groundwater treatment system as indicated in the approved CAP. The data must be submitted to the Section with a monitoring report.
38. The permittee must continue to operate the corrective action program until the 15A NCAC 2L Groundwater standards and the GPS have been met at all points within the plume of contamination that lie beyond the relevant point of compliance for 3 (three) consecutive years, in accordance with 15A NCAC 13B .1637.

Landfill Gas Monitoring Requirements (CDLF over closed MSWLF)

39. Landfill gas monitoring must be conducted at the facility in accordance with the approved landfill gas monitoring plan and Rule .1626(4). The permittee must sample landfill gas quarterly unless otherwise required for corrective action or specified by the Section.

40. Landfill gas probes, select monitoring sites and the landfill facility structures comprise the approved monitoring network for the facility as found in the list of documents for the approved plan, unless otherwise approved or specified by the Section.
 - a. The permittee must obtain approval from the Section for the design, installation, and abandonment of any landfill gas monitoring probe or well.
 - b. A licensed geologist must be present to supervise the installation of landfill gas monitoring probes or wells. The exact locations, screened intervals, and nesting of the probes or wells must be established after consultation with the Section hydrogeologist prior to probe or well installation.
 - c. Each landfill gas monitoring probe or well must be surveyed for location and elevation by a North Carolina Registered Land Surveyor.
 - d. Each landfill gas monitoring probe or well must have an identification plate permanently attached to the well, in accordance with 15A NCAC 2C .0108 (o).
 - e. Within thirty (30) days of the completed construction of each new landfill gas monitoring probe or well, a schematic of the probe or well, to include boring log, depth, and screened interval, must be submitted to the Section. The submittal must also include a scaled topographic map, showing the location and identification of new, existing, and abandoned landfill gas monitoring probes and wells.
 - f. Within thirty (30) days of the abandonment of a landfill gas monitoring probe or well, an abandonment record must be submitted to the Section. The boring must be abandoned in accordance with 15A NCAC 2C .0113(d) and be certified by a Licensed Geologist.
 - g. All records of landfill gas monitoring probe or well installation, repair, abandonment, and all other pertinent activities associated with each landfill gas monitoring probe or well must be placed in the facility's operating record.
 - h. A readily accessible, unobstructed path must be maintained so that landfill gas monitoring probes or wells are accessible using four-wheel drive vehicles.
 41. All landfill gas monitoring must be conducted by properly trained personnel. Methane monitoring must include interior monitoring of onsite buildings.
 42. Landfill gas monitoring reports must be added to the facility's operating record 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.
 43. The permittee must maintain records of all landfill gas monitoring events in the operating record, in accordance with 15A NCAC 13B .0542 (n).
 44. If landfill gas monitoring reveals detections of methane of at least 25 percent of the LEL in onsite buildings, or detections of LEL at the compliance boundary, the permittee must comply with the requirements of 15A NCAC 13B .1626 (4).
- Closure and Post-Closure Requirements (CDLF over closed MSWLF)
45. The permittee must conduct closure and post-closure activities in accordance with the approved plans and Rule 15A NCAC 13B .1627. An updated closure and post-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 C&DLF 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 15 NCAC 13B .1627 (c) 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; and
- c. Surface water, ground water, and explosive gas monitoring.

46. If the minimum 30-year post-closure period ends before the groundwater corrective action program is terminated, pursuant to Rule .1627 (d)(2)(B) of 15A NCAC 13B, the post-closure care period shall be extended at least until such time as the required corrective action program has been completed.

0201-CDLF-1997, Alexander County CDLF

47. The Permit to Operate shall expire November 10, 2020. Pursuant to 15A NCAC 13B .0201(g), no later than (6 months prior) May 10, 2020, the permittee must submit to the Section:

- a. A permit amendment application prepared in accordance with 15A NCAC 13B .0535 (b), and;
- b. A Corrective Action Evaluation Report to demonstrate the effectiveness of the implemented corrective action program in accordance with 15A NCAC 13B .0547(4)(c) and approved Corrective Action Plan.

48. This permit approves the continued operation of the C&DLF on top of the closed MSWLF, as well as the onsite environmental management protection facilities as described in the approved plans. Operation of any C&DLF future phases or cells requires written approval of the Section and must be constructed in accordance with applicable statutes and rules in effect at the time of review.

49. Total gross capacity for the C&DLF unit is defined as the volume measured from the bottom of C&D waste (the top of the cover system of the MSWLF) through the top of final cover of the C&DLF. Fill operations must be contained within the approved elevation contours as shown on the List of Documents for Approved Plan. The estimated life expectancy of the landfill is less than five (5) years.

50. The facility is approved to accept average 6,000 tons per year based on 1,500 pound per cubic yard and 312 working days per year. Maximum variance shall be in accordance with NCGS 130A-294(b1)(1).

51. This facility is permitted to receive solid waste generated within Gaston County the municipalities within Alexander County. This service area is consistent with the local government solid waste management plan(s) and local government approval.

52. In accordance with 130A-295.6 this landfill may use alternative daily cover (ADC) that has been previously approved at another sanitary landfill in North Carolina. The Solid Waste

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. Soil cover 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 nuisance, odor or vectors.

a. The use of different alternative daily cover requires approval, prior to implementation, by the Solid Waste Section. Requests for alternative daily cover approval 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.

53. On or before August 1 annually, the permittee must submit an annual facility report to the 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 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 C&D 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 C&D waste, in tons from scale records, disposed in landfill cells since December 31, 1997 through the date of the annual volume survey must be included in the report.

e. The tons of C&D 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 Environmental Senior 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 Environmental Specialist by the date due on the prescribed annual facility report form.

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)

General

54. A responsible individual trained and certified in facility operations must be on-site at all times during all operating hours of the facility, in accordance with G.S. 130A-309.25.
55. Those wastes listed in 15A NCAC 13B .1626 (l)(b-e) are prohibited from disposal at the facility and include at a minimum hazardous waste, yard trash, liquid wastes, regulated medical waste, sharps not properly packaged, regulated asbestos containing material as defined in 40 CFR 61, PCB waste as defined in 40 CFR 761, and wastes banned from disposal in North Carolina by G.S. 130A-309.10(f).
56. The permittee must not knowingly dispose of, or accept for transfer for subsequent disposal, 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.
57. The permittee must develop and implement, a training and screening program at the facility for detecting and preventing unauthorized wastes from being accepted at the facility. At a minimum, the program must include:
 - a. Random inspections of incoming loads or other comparable procedures.
 - b. Records of all 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, asbestos or other excluded or unauthorized wastes. The plan must address identification, removal, storage and final disposition of these wastes.
58. The facility must not cause nuisance conditions.
 - a. The tipping floor and transfer trailer loading area must be maintained in a clean, sanitary condition at all times and must be cleaned at least daily in accordance with the approved Operational Plan.
 - b. Waste must only be deposited on a “tipping floor” or directly into a transfer container. Waste must not be stored on the “tipping floor” after operating hours.
 - c. Waste may be stored on-site, in leak proof transfer trailers, with watertight covers, a maximum of 24 hours except that a minimal amount of waste may be stored for a maximum of 72 hours when the facility is closed during a weekend or holiday. Storage of the waste must not cause any nuisance, such as odor or attraction of vectors.
 - d. Effective vector control measures must be applied at all times to control any potential vectors including flies, rodents, insects, and other vermin.
 - e. Control measures must be utilized to minimize and eliminate visible dust emissions and blowing litter.
 - i) Fugitive dust emissions are prohibited.

- ii) Windblown materials must be collected by the end of the day and no windblown material may be allowed to leave the facility boundary.
17. All water or liquid that comes in contact with solid waste, including vehicle wash-down water, is leachate and must be captured and properly treated before release to the environment.
- a. The leachate control system, such as floor drains, leachate collection devices, sanitary sewer connections, and leachate storage tanks, must be operational during facility operations.
 - b. The tipping floor must drain away from the building entrance and into the leachate collection system.
 - c. Waste must not be placed in ponded water.
18. The permittee must maintain a record of the amount of solid waste received at the facility, including daily records of waste received and origins of the loads. The permittee must maintain a record of the amounts of waste transported out of the facility for disposal and amounts of waste or material with any other final disposition to be compiled on a monthly basis. The daily records are to be summarized into a monthly report for use in the required annual reports.
19. 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 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 receiving disposal facility.
 - v) By diversion to alternative management facilities.
 - c. The completed report must be forwarded to the Section Environmental Senior Specialist for the facility by the date due on the prescribed annual facility report form.
 - d. A copy of the completed report must be forwarded to the county manager for each county from which waste was received the facility. Documentation that a copy of the report has been forwarded to the county managers must be sent to the Regional Environmental Specialist by the date due on the prescribed annual facility report form.
- 0202T-TRANSFER-1998, Alexander Co. Transfer Station
20. The Permit to Operate shall expire December 22, 2020. Pursuant to 15A NCAC 13 B 0.0201(c), the permittee must submit a permit amendment application prepared in accordance with 15 A NCAC .0400 to the Section no later than June 22, 2020.
21. This Permit to Operate approves the continued operation of the current facility. The facility must be operated in accordance with the List of Documents for Approved Plan.
22. The transfer facility is permitted to receive "Municipal solid waste" as defined in NCGS 130A-290 (a)(18a).

23. This facility is permitted to receive municipal solid waste generated within Alexander County. Waste must be transported for disposal to the Foothills Environmental Landfill (Permit No. 1403-MSWLF-1998). Proposed changes to the service area and/or the disposal facility must be approved by the Section.

PART VII: MISCELLANEOUS SOLID WASTE MANAGEMENT

General Conditions

24. 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.
25. 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.
26. 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.
27. 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.
28. Effective vector control measures shall be applied as necessary to control flies, rodents, insects, or vermin.
29. All miscellaneous solid waste management activities must be managed within the facility in the areas identified in the approved plans. Management of solid waste in areas of the facility other than that referenced above, require written permission of the Solid Waste Section.

White Goods

30. The facility is permitted to receive white goods as defined in North Carolina General Statute Article 9, Chapter 130A-290(44).
31. The facility must manage white goods according to the Operation Plan included in the List of Documents for the Approved Plan. Any revisions to the approved plan shall be approved by the Section, prior to implementation.
32. White goods collection areas shall provide for the proper removal of chlorofluorocarbon refrigerants.

Tires

33. 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).
34. Scrap tire collection areas shall be operated in accordance with the requirements of 15A NCAC 13B, Rule .1107, except that Cleveland County may store up to 25,000 scrap tires as provided in 15A NCAC 13B .1105(g).

35. The facility must manage tires according to the Operation Plan included in the 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.
36. The facility must manage tires according to all applicable statutes and rules of the State of North Carolina.

Treatment & Processing (Wood Grinding)

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

Yard Waste

42. The facility is permitted to receive yard waste as defined in 15A NCAC 13B .0101(56).
43. Yard waste shall be managed in accordance with the requirements of 15A NCAC 13B .1400 or transported for disposal at a facility permitted to receive yard trash.
44. The facility must manage yard waste according to the Operation Plan included in the List of Documents for the Approved Plan. Any revisions to the approved plan shall be approved by the Division prior to implementation.

- End of Section -

ATTACHMENT 4
CONDITIONS OF PERMIT FOR CLOSURE

PART I: GENERAL FACILITY

Not Applicable

PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)

General

1. 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.
2. The owner must maintain permanent markers that accurately identify the edge of the waste disposal boundary.
3. 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.
4. 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.
5. 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.
6. 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

7. Groundwater quality at the facility is subject to "Classifications and Water Quality Standards Applicable to the Ground waters of North Carolina," 15A NCAC 2L. This includes, but is not limited to, the provisions for detection monitoring, assessment, and corrective action.

8. 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.
9. 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. The monitoring report must be submitted in electronic format (pdf or tiff) and the analytical data must be submitted in a spreadsheet format in an Electronic Data Deliverable (EDD) Template. All monitoring reports must contain at a minimum:
 - a. a USGS topographic map,
 - b. a potentiometric surface map for the current sampling event that also includes surface water sampling locations,
 - c. analytical NC certified laboratory reports with QA/QC information and summary tables,
 - d. a completed Solid Waste Environment Monitoring Data Form, and
 - e. laboratory data and field data submitted in accordance with the EDD Template.
10. The owner must monitor landfill gas to ensure that the closed site continues to meet the design standards for landfill gas found in 15A NCAC 13B .0503(2)(a). The concentration of explosive gases generated by the site must not exceed:
 - a. twenty-five percent of the limit for the gases in site structures (excluding gas control or recovery system components); and
 - b. the lower explosive limit for the gases at the property boundary.
11. Landfill gas monitoring must be conducted quarterly, unless otherwise specified by the Section. Landfill gas monitoring should follow “Landfill Gas Monitoring Guidance Document,” as provided on the Section webpage. Any proposed modification to an approved landfill gas monitoring plan must be submitted to the Section and approved prior to implementation.
12. All landfill gas monitoring must be conducted by properly trained personnel and must include monitoring for hydrogen sulfide. Landfill gas monitoring must include interior monitoring of onsite buildings. Landfill gas monitoring equipment must be calibrated according to the manufacturer’s specifications. Verification of the calibration of the landfill gas monitoring equipment is required. Landfill gas monitoring results must be recorded on forms provided by the Section and must be maintained within the facility’s operating record.
13. The owner must maintain the integrity of all groundwater and landfill gas monitoring wells, including making repairs to well heads, covers, and surface pads and make sure all wells are locked, during the post-closure period.

14. 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.
15. Each groundwater monitoring well and landfill gas well must be surveyed for location and elevation. Each groundwater monitoring well and landfill gas monitoring well must have an identification plate permanently attached to the well, in accordance with 15A NCAC 2C .0108(o).
16. 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 or landfill gas monitoring well. A licensed geologist must be present to supervise the installation of groundwater monitoring wells and landfill gas 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 and landfill gas monitoring 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 and landfill gas 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.
 - e. Within thirty (30) days of the abandonment of a landfill gas monitoring well, an abandonment record must be submitted to the Section. The boring must be abandoned in accordance with 15A NCAC 2C .0113(d) and be certified by a Licensed Geologist.

Reporting and Recordkeeping

17. Documentation of well completion, development details, repair, abandonment, and all other pertinent activities associated with each groundwater and landfill gas monitoring well must be maintained in the facility operating record. The permittee must maintain a record of all groundwater, surface water, and landfill gas monitoring events and analytical data in the operating record.

18. 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.
19. All forms, reports, maps, plans, and data submitted to the Section must include an electronic (pdf) copy.

0201-MSWLF-1979, Alexander County Landfill

20. The owner must provide post-closure care and monitoring for the landfill. The post-closure period began December 1997. After at least five 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, landfill gas monitoring, and post-closure care until the Section provides written approval to discontinue monitoring and/or post-closure care.
21. The MSW landfill stopped receiving waste on December 1997.

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
Not Applicable

- End of Conditions -