



North Carolina Department of Environment and Natural Resources  
Division of Waste Management

Pat McCrory  
Governor

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Director

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Secretary

STATE OF NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
DIVISION OF WASTE MANAGEMENT  
SOLID WASTE SECTION

**SOLID WASTE MANAGEMENT FACILITY**  
**Permit No. 92-31**

WAKE RECLAMATION, LLC  
(a wholly-owned subsidiary of Waste Industries USA, Inc.)  
is hereby issued a

**PERMIT TO CONSTRUCT**

9231-CDLF-2012 Material Recovery C&D Landfill – Phase 2 (Stage 2)

**PERMIT TO OPERATE**

9231-CDLF-2012 Material Recovery C&D Landfill – Phase 1 (Cells A, B, and C)  
and Phase 2A (Cells 1 and 2)

**PERMIT FOR CLOSURE**

*Not Applicable*

Located at 2600 Brown Field Road, southeast of Raleigh, Wake County, North Carolina, in accordance with Article 9, Chapter 130A, of the General Statutes of North Carolina and all rules promulgated thereunder and subject to the conditions set forth in this permit. The legal description of the site is identified on the deed recorded for this property listed in Attachment 1 of this permit.

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Edward F. Mussler, III, P.E.  
Permitting Branch Supervisor  
Solid Waste Section

1646 Mail Service Center, Raleigh, North Carolina 27699-1646  
Phone: 919-707-8200 Internet: <http://portal.ncdenr.org/web/wm/sw>

## ATTACHMENT 1

### GENERAL PERMIT CONDITIONS INFORMATION

#### **Part I     General Facility**

1. This permit is issued by the North Carolina Department of Environment and Natural Resources, 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 permit to construct and permit to operate for the Material Recovery C&D Landfill issued October 22, 2012, was recorded in the Wake County Register of Deeds on November 15, 2012, in Deed Book 15016, Pages 1951-1970.
4. When this property is sold, leased, conveyed, or transferred in any manner, the deed or other instrument of transfer must contain in the deed description section, in no smaller type than that used in the body of the deed or instrument, a statement that the property has been used as a solid waste management facility and a reference by book and page to the recordation of the permit.
5. By receiving waste at this facility the permittee shall be considered to have accepted the terms and conditions of this permit.
6. Operation of this solid waste management facility shall be in accordance with the North Carolina Solid Waste Management Rules, 15A NCAC 13B; Article 9 of the Chapter 130A of the North Carolina General Statutes (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 shall 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 National Pollutant Discharge Elimination System 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.

**PERMITS TO OPERATE**

| Permit         | Issuance        | Expiration       | DIN   |
|----------------|-----------------|------------------|-------|
| 9231-CDLF-2012 | October 9, 2014 | January 28, 2016 | 22407 |

DIN = Document Identification Number

**PROPERTIES APPROVED FOR THE SOLID WASTE MANAGEMENT FACILITY**

| Wake County, NC Register of Deeds |      |  |                       |        |
|-----------------------------------|------|--|-----------------------|--------|
| Book                              | Page | Grantor                                    | Grantee               | Acres  |
| 14701                             | 1898 | Material Recovery, LLC                     | Wake Reclamation, LLC | 210.19 |
| Book of Maps<br>2003              | 1508 | Material Recovery, LLC and Margaret Talton |                       |        |
| Total Site Acreage                |      |  |                       | 210.19 |

The Wake County Property ID is 174 163 9103. The Real Estate ID is 4648.

**Part II Municipal Solid Waste Landfill Unit(s)**

*Not Applicable*

**Part III Construction and Demolition Landfill Unit(s)**

9231-CDLF-2012, Material Recovery C&D Landfill

*Permitting History*

| <b>Permit Type</b>  | <b>Date Issued</b> | <b>Doc ID</b> |
|---|--------------------|---------------|
| Site Suitability Approval Letter  | January 24, 2003   | 10050         |
| Original Issue PTC – Phase 1 (Cells A, B, and C)  | January 31, 2003   | 3232          |
| PTO – Phase 1, Cell A   | October 1, 2003    | 10050         |
| PTO Modification – New franchise / Wood waste processing area added   | February 18, 2005  | 3600          |
| PTO – Phase 1, Cell B   | May 23, 2006       | 230           |
| PTO – Phase 1, Cell C, and ownership change   | January 28, 2008   | 3612          |
| PTC – Phase 2A  | January 28, 2011   | 12346         |
| PTO – 5-yr amendment Phase 1 (Cells A, B, and C)  | January 28, 2011   | 12346         |
| PTO – Phase 2A, Cell 1  | March 20, 2012     | 16327         |
| PTC and PTO – Change in Ownership   | October 22, 2012   | 17487         |
| PTO – Phase 1 (Cells A, B, and C) and Phase 2 (Cells 1 and 2)   | October 9, 2014    | 21833         |
| PTO – Phase 1 (Cells A, B, and C) and Phase 2 (Cells 1 and 2) – Administrative Correction – correct PTO expiration date in Attachment 3, Part III | December 2, 2014   | 22407         |

1. In 2003, a Permit to Construct for Phase 1, and Permit to Operate for Phase 1 Cell A were issued to Material Recovery, LLC, owned by MRR Southern, LLC. The Permit to Construct was recorded on February 14, 2003, at Book 9914, Pages 701 – 720 in the Wake County Register of Deeds.
2. On or about April 5, 2005, business entities which were wholly owned by WCA Waste Corporation purchased four solid waste management facilities in North Carolina owned by MRR Southern, LLC, including the construction and demolition waste landfill permitted to Material Recovery, LLC. Subsequent to the purchase of the facility, WCA obtained a franchise for the landfill from Wake County and applied for the permit to operate the facility to be re-issued to WCA Waste Systems, Inc. and Material Recovery, LLC. During this period, WCA continued to operate the landfill as previously permitted to Material Recovery, LLC. The permit that approved the ownership change was issued in January 2008.
3. WCA Waste Corporation requested a modification to the franchise to expand the franchise coverage area to include Harnett, Wayne, Wilson, Nash, Warren, Vance, Granville, Person, Caswell, Alamance, and Lee counties. Wake County adopted an ordinance modifying the franchise on September 20, 2010.
4. A transfer of permit to Wake Reclamation, LLC, a wholly owned subsidiary of Waste Industries USA, Inc., was requested in February 2012. Wake Reclamation, LLC agreed to

operate the facility in accordance with the existing permit until a permit was issued reflecting the change in ownership. Wake County adopted an ordinance amending the franchise for the landfill on October 15, 2012. An amendment to the permit changing the owner and operator was issued October 22, 2012, as Permit 9231-CDLF-2012.

*List of Documents for the Approved Plan*

1. *Volume One - Site Application, Material Recovery, LLC/Brown-field Road Construction & Demolition Landfill.* December 2001. Joyce Engineering, Inc., Greensboro, NC. Revised through 2003. Doc ID 3602 (partial, Section II).
2. *Volume Two - Site Application, Material Recovery, LLC/Brown-field Road Construction & Demolition Landfill.* December 2001. Joyce Engineering, Inc., Greensboro, NC. Revised through 2003. Doc ID 10463.
3. *Construction Certification, Phase 1, Cell A.* Prepared by Joyce Engineering, Greensboro, NC. September 16, 2003.
4. Modification: Letter dated 25 March 2004 requesting the use of soils off-site with less than 10 ppm nitrate and addressing that soils with greater than 10 ppm nitrate levels be utilized on-site. Doc ID 10051.
5. Modification: New franchise approvals for Material Recovery, LLC. 20 January 2004 and 2 February 2004, Wake Board of Commissioners. The franchise changes include adding Franklin County to the service area and increasing the daily disposal amount. Doc ID 10551.
6. *Construction Quality Assurance Report, WCA Brownfield Road C&D Landfill Cell B.* Prepared by: David Garrett, P.G.; P.E., Raleigh, NC. May 22, 2006. Doc ID 232.
7. Letter from Stephen R. Berlin to Paul Crissman, dated November 16, 2006, requesting issuance of permit to WCA Waste Corporation and providing information to support the request for permit issuance. Doc ID 823.
8. *Construction Quality Assurance Report, WCA Brownfield Road C&D Landfill Cell C.* Prepared by: David Garrett, P.G., P.E., Raleigh, NC. April 13, 2007. Doc ID 3828.
9. *Application for Permit to Construct, Phase 2A.* Prepared by David Garrett, P.G., P.E., Raleigh, NC. June 25, 2008, revised through December 2010. Doc ID 12363.
10. *Application for Permit to Construct, Phase 2A, Design Hydro Report, Water Quality Monitoring Plan, and Landfill Gas Monitoring Plan.* Prepared by David Garrett, P.G., P.E., Raleigh, NC. June 25, 2008, revised through March 2010. Doc ID 10041. Approval letter Doc ID 10047.
11. *Construction Quality Assurance Certification Report, Phase 2A, Cell 1.* Prepared by Joyce Engineering, Greensboro, NC. September 2011, revised through December 2011. Doc ID 16328.
12. Notification of change in operator and request to transfer permit. Submitted by Grady L.

Shields, Wyrick Robbins Yates & Ponton LLP, Raleigh, NC, representing Waste Industries USA, Inc. February 28, 2012. DIN 16620.

13. Ordinance Modifying Franchise Issued to Material Recovery, LLC. Wake County Board of Commissioners. Franchise reissued to Wake Reclamation, LLC. Adopted October 15, 2012. DIN 17486.
14. *Construction Quality Assurance Report, Brownfield Road C&D Landfill – Phase 2A Cell2.* August 2014. Prepared by Smith Gardner, Inc., Raleigh, NC. Received September 3, 2014. Revised through September 30, 2014. DIN 21826.
15. *Groundwater Monitoring Network Adjustment.* September 10, 2014. Prepared by Smith Gardner, Inc., Raleigh, NC. Doc ID 21794. Approval letter Doc ID 21795.

**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 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 included in Attachment 1, "List of Documents for the Approved Plan".
2. Modification or revision of any approved plan or changes during construction require approval by the Section and may constitute a permit modification and be subject to a permitting fee.
3. 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. The facility must furnish a copy of the approved Sedimentation and Erosion Control Plan from the NC Division of Energy, Mineral and Land Resources, Land Quality Section, to the Solid Waste Section.
4. Modifications to the approved sedimentation and erosion control activities require approval by the NC Division of Energy, Mineral and Land Resources, Land Quality Section. The Solid Waste Section must be notified of any modifications.
5. Facility construction 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 requirement under Sections 401 and 4040 of the Clean Water Act, as amended.
6. 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 onsite, 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.

#### **Part II Municipal Solid Waste Landfill Unit(s)**

*Not Applicable*

#### **Part III Construction and Demolition Landfill Unit(s)**

1. Pursuant to the NC Solid Waste Management Rules 15A NCAC 13B .0201(c) and (d)(1), this permit approves construction of Phase 2A (Stage 2) of the landfill, consisting of approximately 7.5 acres with a projected gross capacity of 433,980 cubic yards of airspace.

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. The following conditions must be met prior to operation of the newly constructed area:
  - a. Construction Quality Assurance (CQA) documentation and a certification by the project engineer that the landfill was built in accordance with approved plans and the conditions of the permit must be submitted to the Section for review and approval in accordance with 15A NCAC 13B .0541.
  - b. The edge of waste footprint must be identified with permanent physical markers, for both existing units and the new unit.
  - c. The permittee must contact the appropriate regional environmental specialist and permitting engineer to determine whether the Section chooses to hold a pre-operative meeting with key landfill personnel and representatives of the Section.
  - d. Documentation of financial assurance mechanisms must be submitted to the Section. The financial assurance amount must include closure and post-closure costs including the new phase to receive the permit to operate, in accordance with 15A NCAC 13B .0546, and must include costs for potential assessment and corrective action, in accordance with NCAC 13A 295.2 (h).
  - e. The Permittee must obtain a permit to operate for the phase from the Section in accordance with 15A NCAC 13B .0201(d).
  - f. Groundwater and landfill gas monitoring wells and probes must be installed and surface water sampling locations established. New groundwater monitoring wells and surface water stations must be sampled for tetrahydrofuran and the constituents listed in 15A NCAC .0544 (b)(1)(D). Well construction records and sampling results shall be submitted to the Section hydrogeologist of review and approval prior to issuing the Permit to Operate.
4. 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.

### **Geologic, Water Quality, and Landfill Gas Monitoring Requirements**

5. Prior to construction of the phase or cell(s) within the phase, all piezometers, borings, and groundwater and landfill gas monitoring wells within the footprint must be properly abandoned in accordance with 15A NCAC 2C .0113 (b)(1), entitled "Abandonment of Wells."
6. In areas where soil is to be undercut, abandoned piezometers, groundwater and landfill gas monitoring wells and borings must not be grouted to pre-grade land surface, but to the proposed base grade surface to prevent having to cut excess grout and possibly damage the wells.

7. 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.
8. 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.
9. Any modification to the approved water quality monitoring, sampling, landfill gas, and analysis plan must be submitted to the Section Hydrogeologist for review.
10. 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.
11. 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.
12. All forms, reports, maps, plans, and data submitted to the Section must include an electronic (pdf) copy.

**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. 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.
2. Signs must be posted at the entrance to the facility that state types of waste that can and cannot be received at the facility, the hours of operation, the permit number(s), contact name, telephone number, and other pertinent information. Traffic signs or markers must be provided as necessary to promote an orderly traffic pattern to and from the operating areas and to maintain efficient operating conditions.
3. Interior roadway must be of all-weather construction and maintained in good condition.
4. 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 N.C.G.S. 130A-309.25. An attendant must be present to oversee the loading and unloading of waste.
5. 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.
6. 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. The Section must be notified of any modifications to the approved sedimentation and erosion plan.
7. Facility construction, operations or practices must not cause or result in a discharge of pollution, dredged material, and/or fill material into waters of the state in violation of the requirements under Sections 401 and 4040 or the Clean Water Act, as amended.
8. Fire lanes must be established and maintained at all times. The dimensions of the fire lanes must be coordinated with the Fire Marshall having jurisdiction over the site.
9. Open burning of solid waste is prohibited.
10. Fires and non-conforming waste incidents shall be reported to the Section's Regional Waste Management Specialist within twenty-four hours followed by a written notification to be submitted within 15 days.
11. Financial assurance as required by state rules and statutes must be continuously maintained for the duration of the facility and updated and submitted annually to the Section by the anniversary date of the issuance of this permit.

12. Any modifications to the approved plans must be submitted to the Section and approved prior to implementation.

**Part II: Municipal Solid Waste Landfill Units**

*Not Applicable*

**Part III: Construction and Demolition Debris Landfill Units**

13. The Permit to Operate will expire January 28, 2016. Pursuant to 15A NCAC 13B .0201(c), the permittee must submit a permit amendment application prepared in accordance with 15A NCAC 13B .0535 (b) to the Section no later than July 28, 2016.
14. This permit approves the operation of Phases 1 and 2A, as well as the onsite environmental management and protection facilities as described in the approved plan in Attachment 1, Part III. Operation of any C&DLF future phases or cells requires written approval of the Section after construction in accordance with applicable statutes and rules.
15. The facility is permitted to receive the following waste types:
  - a. "C&D solid waste" as defined in 15A NCAC 13B, .0532(8) means solid waste generated solely from the construction, remodeling, or demolition operations on pavement and buildings or structures. C&D waste does not include municipal and industrial wastes that may have been generated by the on-going operations at buildings or structures.
  - 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.
  - d. "Asphalt" in accordance with NCGS 130-294(m).
16. Those wastes listed in 15A NCAC 13B .0542 (e), must not be accepted for disposal. Those wastes include, but are not limited to, municipal solid waste, liquid waste, industrial wastes, and yard trash. Barrels and drums shall not be accepted unless they are empty and perforated sufficiently to ensure that no liquid or hazardous waste is contained therein.
17. 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) (2).
18. This facility is permitted to receive solid waste generated within the following counties: Wake, Durham, Orange, Johnston, Franklin, Chatham, Alamance, Caswell, Person, Granville, Vance, Warren, Nash, Wilson, Wayne, Harnett, and Lee, consistent with the franchise amendment granted by the Wake County Board of Commissioners September

7, 2010. The facility is approved to accept 1,100 tons per day consistent with the franchise amendment granted by the Wake County Commissioners of January 20, 2004. Maximum variance is in accordance with NCGS 130A-294(b1)(1).

19. The following table lists the capacity for the C&DLF units. Total gross capacity is defined as the volume measured from the bottom of waste through the top of final cover. The estimated remaining life expectancy is approximately 18 years.

| Landfill Phase | Area (acres) | Gross Capacity (cubic yards) | Status                    |
|----------------|--------------|------------------------------|---------------------------|
| 1              | 20.0         | 1,636,000                    | Partially filled          |
| 2A (Cell 1)    | 4.8          | 366,000                      | Partially filled          |
| 2A (Cell 2)    | 4.4          | 267,367                      | Approved for fill         |
| 2A (Stage 2)   | 7.5          | 433,980                      | Approved for construction |
| 2B             | 8.2          | 1,138,231                    | Future                    |
| 2C             | *            | 2,169,810                    | Future                    |
| Northern Area  | 45.0         | 6,011,388                    |                           |
| Phases 3-5     | 24.2         | 2,223,134                    | Future                    |
| Southern Area  | 24.2         | 2,223,134                    |                           |
| TOTAL          | 69.2         | 8,234,522                    |                           |

\* Phase 2C will be a vertical fill over Phases 1, 2A, and 2B.

20. 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.
21. The permittee shall actively employ a screening program at the facility prepared in accordance with Rule .0544 for detecting and preventing the disposal of excluded or unauthorized waste. At a minimum, the program shall 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.
22. 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&D landfill unit in accordance with NCGS 130A-309.25 and addressed by memorandum dated November 29, 2000.
23. The edge of the waste footprint for all disposal units must be identified with permanent physical markers.

### **Cover Materials**

24. Fill operations must be contained within the approved elevation contours as shown on the approved application drawings.
25. Unless alternative materials or an alternative thickness of cover has been approved by the Section, waste must be covered with six inches of earthen materials when the waste disposal area exceeds one-half acre and at least once weekly. Cover must be placed at more frequent intervals if necessary to control disease vectors, fires, odors, blowing litter, and scavenging. A notation of the date and time of the cover must be recorded in the operating record.
26. Unless alternative materials or an alternative thickness of cover has been approved by the Section, areas which will not have additional wastes placed on them for three months or more, but where final termination of disposal operations has not occurred, must be covered and stabilized with vegetative ground cover or other stabilizing material.
27. Alternative materials or an alternative thickness of cover may be approved by the Section if the owner or operator demonstrates that the alternative material or thickness controls disease vectors, fires, odors, blowing litter, and scavenging without presenting a threat to human health and the environment. A C&DLF owner or operator may apply for approval of an alternative cover material. If approval is given by the Section, approval would extend to all C&DLF units at one specific facility.
28. In accordance with NCGS 130A-295.6 this landfill may use alternative daily cover (ADC) that has been previously approved at another sanitary landfill in North Carolina. The Section maintains a list of approved ADC and its appropriate use, which may be referred to, but is not required to be, in determining ADC types and uses.
29. The use of alternative daily cover that has not been approved for the facility or approved under NCGS 130A-295.6 must be demonstrated and approved by the 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.
30. Wastewater treatment sludge is not approved for disposal. Wastewater treatment sludge may be accepted, with 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.

### **Closure**

31. Closure or partial closure on any unit must be in accordance with the most recently approved closure plan that is included in Attachment 1, Part III. Prior to beginning closure of each C&DLF unit, the owner or operator must notify the Section that a notice of intent to close the unit has been placed in the operation record.
32. The owner or operator must begin closure activities for that portion of each C&DLF unit meeting one or more of the following requirements, unless an extension has been granted by the Section. Extensions beyond the deadline for beginning closure may be granted by the Section if the owner or operator demonstrates that the portion of the C&DLF unit has the capacity to receive additional wastes and the owner or operator has taken and will continue to take all steps necessary to prevent threats to human health and the environment from the unclosed C&DLF unit.:
  - a. No later than 30 days after the date on which the C&DLF unit receives the known final receipt of wastes;
  - b. No later than 30 days after the date that a 10 acre or greater area of waste, is within 15 feet of the final design grades; or
  - c. No later than one year after the most receipt of wastes, if the C&DLF unit has remaining capacity.

### **Groundwater, Surface Water, and Landfill Gas Monitoring**

33. Groundwater, surface water, and landfill gas monitoring shall be conducted in accordance with Rules .0544, and approved monitoring plans listed in the List of Documents for the Approved Plan in Attachment I, Part III. Any modification to the approved plans must be submitted to the Section and approved prior to implementation.
34. The permittee must maintain a record of all monitoring events and analytical data in their operating record.
35. The permittee must obtain approval from the Section for the design, installation, and abandonment of any monitoring well.
36. A readily accessible, unobstructed, path shall be maintained so that monitoring wells may be accessed using four-wheel drive vehicles.
37. A licensed geologist must be present to supervise the installation of any new groundwater monitoring wells and landfill gas monitoring wells. The exact locations, screened intervals, and nesting of the wells shall be established after consultation with the Section hydrogeologist at the time of well installation.
38. Each groundwater monitoring well and landfill gas monitoring well shall be surveyed and 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).

39. Within thirty (30) days of the completed construction of each new groundwater monitoring well and landfill gas monitoring 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.
  - a. Within thirty (30) days of the completed permanent abandonment of a groundwater monitoring well and landfill gas 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 Section in accordance with 15A NCAC 2C .0114(b) and be certified by a Licensed Geologist.
  - b. Documentation of well completion or abandonment must be placed in the operation record.
40. A field log book which details all development, sampling, repair, and other pertinent activities associated with each monitoring well must be kept as part of facility record.
41. Reports of the analytical results for groundwater quality monitoring sampling events must be submitted to the Section within 120 days of the sample collection date. Analytical data must be submitted in a manner prescribed by the Section.
42. All monitoring reports must contain
  - a. an evaluation of the potentiometric surface,
  - b. analytical laboratory reports and summary tables,
  - c. statistical analysis of laboratory data,
  - d. a Solid Waste Environment Monitoring Data Form, and
  - e. laboratory data submitted in accordance with the Electronic Data Deliverable Template.

### **Recordkeeping and Reporting**

43. 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. 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.
44. 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. 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 November 19, 2001, through the date of the annual volume survey must be included in the report.
  - e. 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.
  - 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 Environmental Specialist by the date due on the prescribed annual facility report form.

**Part IV: Industrial Landfill Units**

*Not Applicable*

**Part V: Land Clearing and Inert Debris Landfill Units**

*Not Applicable*

**Part VI: Transfer Station / Treatment and Processing Unit**

*Not Applicable*

**Part VII: Miscellaneous Solid Waste Management**

*Not Applicable*

*- End of Permit Conditions -*