



Facility Permit No.: 98-09
Permit to Construct and Operate
Wilson County Westside C&D Landfill
January 25, 2011
Doc. ID: 12570
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NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

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

CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL
Permit No. 98-09

Wilson County
is hereby issued a

PERMIT TO CONSTRUCT AND OPERATE

WILSON COUNTY WESTSIDE C&D LANDFILL
EXISTING PHASE 1 AND PHASE 2 (VERTICAL EXPANSION)

Located adjacent to the closed Wilson County MSW landfill and accessed from State Route (S.R.) 1503 in the City of Wilson, Wilson 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 facility is located and described by the legal description identified on the deeds recorded for this property listed in Attachment 1 of this permit.

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

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
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ATTACHMENT 1

PART I: PERMITTING HISTORY

Permit Type	Date Issued	Document Identification Number (Doc ID No.)
Permit to Operate (PTO) - Phase 1, Cell 1	September 17, 2004	12569
Permit to Construct (PTC) - Phase 1, Cells 2 & 3	September 24, 2004	12568
PTO – Modification, Phase 1, Cells 1, 2, &3	July 22, 2005	12567
PTC & PTO – Amendment, Phases 1 & 2	January 25, 2011	12570

PART II: LIST OF DOCUMENTS FOR APPROVED PLAN

1. *Site Application for Wilson County Westside C&D Landfill.* Prepared for: Wilson County Department of Solid Waste, North Carolina (NC). Prepared by: Babb & Associates, PA, Raleigh, NC. Dated December 11, 2003, with map set dated July 10, 2003.
2. *Construction Plan for Wilson County Westside C&D Landfill Facility.* Prepared for: Wilson County Department of Solid Waste, North Carolina. Prepared by: Gary W, Ahlberg, P. E., Wilmington, NC. Dated August 2004 and revised through September 2004.
3. *Well abandonment record for piezometer P-105.* Prepared for: Wilson County, North Carolina. Prepared by: Carolina Drilling. Dated June 7, 2004.
4. Letter dated 19 March 1990 to approve the Erosion and Sediment Control Plan by Division of Land Resources.
5. Certification drawing dated 10 June 2005 and prepared by: Gary W, Ahlberg, P. E., Wilmington, NC addressing the construction of Phase 1, Cell 2 and related infrastructure.
6. Certification drawing dated 01 September 2005 and prepared by: Gary W, Ahlberg, P. E., Wilmington, NC addressing the construction of Phase 1, Cell 3 and related infrastructure. (Doc ID 9568)
7. *Permit Application, Wilson County Westside C&D Landfill (Permit # 98-09) Continued Operations, Wilson County, North Carolina.* Prepared for: Wilson County Solid Waste Management Department, North Carolina. Prepared by: Blackrock Engineers, Inc.,

Wilmington, NC and Richardson Smith Gardner & Associates, Raleigh, NC. July 2008, revised through November 20, 2009. (Doc ID 8946)

8. *Permit Amendment Application, Wilson County Westside C&D Landfill (Permit # 98-09) Continued Operations, Wilson County, North Carolina.* Prepared for: Wilson County Solid Waste Management Department, North Carolina. Prepared by: Blackrock Engineers, Inc., Wilmington, NC and Richardson Smith Gardner & Associates, Raleigh, NC. January 2010, revised through January, 2011. (Doc ID 12737)

PART III: PROPERTIES APPROVED FOR THE SOLID WASTE FACILITY

Wilson County, N.C. Register of Deeds				
Book	Page	Grantee	Grantor	Acres
Plate 14	109	Recombination Plat – Wilson County Landfill		103.76
Deed 1396	708			
Deed 1562	165			
Plat 13	6			
Deed 1110	159			
Deed 1091	627			
Plat 32	13			
Total Site Acreage: 103.76 acres				

1. Recombination Plat – Wilson County Landfill was completed in January 2003 by Herring-Sutton & Associates, P.A.
2. The portions of the landfill facility property are occupied by the permitted C&DLF and other miscellaneous waste management units. The C&D waste footprints encompass approximately 10.5 acres which is adjacent to the closed MSWLF unit (Permit No. 98-01).

PART IV: GENERAL PERMIT CONDITIONS

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 (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.
 - a. After the conditions of the Permit to Construct for Phase 2 in Attachment 2 of this permit are completed by the permittee, the Permit to Operate contained in Attachment 3 of this permit shall take effect.
 - b. The Permit to Operate for Phases 1 & 2 shall expire January 25, 2016. 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. Permit has been registered in Plat Book 14, Page 109.
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 sanitary landfill 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. Construction and operation of this solid waste management facility must be in accordance with the Solid Waste Management Rules, 15A NCAC 13B, Article 9 of 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 Rules shall take precedence unless specifically addressed by permit condition.
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 sedimentation and erosion control, and a General or Individual National Pollutant Discharge Elimination System (NPDES) Stormwater Discharge Permit, if applicable. Issuance of this permit does not remove the permittee’s responsibilities for compliance with any other local, state or federal rule, regulation or statute.

- End of Section -

ATTACHMENT 2 CONDITIONS OF PERMIT TO CONSTRUCT

1. This permit approves the new Facility Plan and Facility Site Plan Map – Drawing No. S1 (Attachment 1, Part II, Document No. 8) that defines the comprehensive development of the C&DLF facility including the estimates of gross capacity of the entire C&DLF, the estimates of gross capacity each phase of development of the C&DLF, the solid waste stream to be received, the areas served by the facility, all other onsite miscellaneous solid waste management units and related facility infrastructure in accordance with North Carolina Solid Waste Management Rules (Rule) 15 NCAC 13B .0537.
2. 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.

PART I - C&DLF CONSTRUCTION CONDITIONS

3. This Permit to Construct is issued for the Wilson County Westside C&DLF facility under the criteria set forth in accordance with Rule 15A NCAC 13B .0533(a)(2) for a subsequent vertical expansion of Phase 2 as shown on the Figure No. 4 and Drawing No. C4 in the approved Document No. 8 (Attachment 1, Part II).
4. The permittee shall submit an amendment to this permit pursuant to Rule 15A NCAC 13B .0533(a)(2) for any subsequent phase of development.
5. This Permit to Construct for Phase 2 shall expire eighteen (18) months from the issuance date, January 25, 2011, as per Rule 15A NCAC 13B .0534(b)(2)(H) if construction of Phase 2 is not commenced.
6. The C&DLF facility has a total permitted gross design volume of 433,560 cubic yards (measured from the top of the protective cover to the top of final cover) as shown on the Figure No. 4 and Drawing No. C3. Development of Phase 2 shall only be in accordance with the Section approved plans, Drawing No. C4, and the requirements stipulated in Rules .0531 - .0547. The construction of Phase 2 is permitted for:
 - a. Vertical expansion on top of the existing Phase 1 which encompasses 10.5 acres,
 - b. Approximately 134,600 cubic yards of total gross volume (from the top of the protective cover to the top of cover), and
 - c. 100,000 tons of wastes over the 5-year planning period. The cumulative waste tonnage for the period is based on an average of 20,000 tons per year which is

consistent with the Resolution dated November 4, 2002 and approved by the Wilson County Board of Commissioners.

7. Additional conditions and revisions of the approved documents or changes during construction of Phase 2 require approval by the Section in accordance with Rule 15A NCAC 13B .0533(a)(4).
8. The permittee shall conduct a preconstruction meeting, on site, prior to initiating construction of Phase 2 at the site and periodic construction progress meetings, as needed. The permittee shall notify the Section 10 days prior to said meeting.

Geologic, Ground Water and Monitoring Requirements

9. The permittee's geologist shall be in the field to supervise of installing ground-water monitoring wells and landfill gas probes (GP-1 through GP-3) according to the approved monitoring plans (Attachment 1, Part II, Document No. 8). Any modifications to the approved monitoring plans shall be submitted to the Section Hydrogeologist for review and approval prior to implementation of the changes. Documentation of all changes to the approved plan shall be submitted with the well construction records.
10. After well completion, provide a scaled as-built map depicting the location and identification of the new ground-water monitoring wells and gas probes; existing ground-water monitoring wells, and abandoned piezometer / ground-water monitoring wells (completed GW-30 form). Additionally, for each well constructed, a well construction record (completed GW-1 form), well schematic, boring log, and a description of well development activities shall be submitted, along with the aforementioned as-built drawings to the Section at the same time as the results of the initial sampling event or within 30 days upon completion of any new wells.
11. All forms, reports, maps, plans, and data submitted to the Section must include an electronic copy.

PART II – MISCELLANEOUS WASTE MANAGEMENT UNITS CONSTRUCTION CONDITIONS

12. 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 the approved plans (Document No. 8, Attachment I, Part II).

PART III – EROSION AND SEDIMENT CONTROL REQUIREMENTS

13. Prior to construction of C&DLF –Phase 2 and other on-site miscellaneous solid waste management units, all sedimentation and erosion control activities shall be constructed and conformed to the requirements shown on Drawing Nos. C4, D2, D3, & Sheets DT1, SP-1 through SP-4 and approved Erosion and Sediment Control Plans, the Sedimentation Pollution Control Law (15A NCAC 04), and any required NPDES permits. During the course of construction, the permittee must implement, but not limited to, the following sedimentation and erosion control activities:
 - a. All sedimentation and erosion control activities shall be conducted by installing and maintaining adequate structures and measures to manage the run-on and run-off generated by the 24-hour, 25-year storm event, to prevent silt from leaving the site, and to prevent excessive on-site erosion.
 - b. Provisions for a vegetative ground cover sufficient to restrain erosion must be accomplished within 30 working days or 120 calendar days upon completion of any phase of C&DLF development.
14. Modifications in sedimentation and erosion control activities must be approved by the NCDENR, Division of Land Resources, Land Quality Section. Upon receiving the approval letter, the permittee shall notify the Section of any sedimentation and erosion control modifications.

PART IV - PRE-OPERATIONAL CONDITIONS

15. Prior to receiving waste at any unit of this facility, a Permit to Operate must be obtained from the Section in accordance with Rule 15A NCAC 13B .0201(d).
16. The following requirements shall be met prior to operation of this facility:
 - a. Site preparation has occurred in accordance with the approved plans.
 - b. The permittee shall arrange for a site inspection by a representative of the Section for the purpose of demonstrating that the facility construction is consistent with approved plans and specifications.
 - c. Prior to waste disposal in any new unit or cell, the permittee shall contact the appropriate regional Solid Waste Management Specialist to determine whether the Section chooses to hold a pre-operative meeting with key landfill personnel and representatives of the Section.
 - d. Ground water monitoring wells and gas probes (GP-1 through GP-3) shall be installed, and surface water sampling locations shall be established. A baseline

sampling event for background water quality shall be completely performed in accordance with 15A NCAC 13B. 0544(b)(1)(D). Well construction records (including gas probes) and sampling results shall be submitted to the Section Hydrogeologist for review and approval prior to issuing the Permit to Operate.

- e. The permittee shall completely implement and install site access, security, signs, and safety requirements in accordance with 15A NCAC 13B .0542(j), .1406 (5) & (8), and the approved operations plans (Document No. 8, Attachment I, Part II).
- f. The edges of the waste footprints for C&DLF, Inert Debris Unit, and Asbestos Waste Disposal Area must be identified with permanent physical markers.
- g. The permittee must provide a soil report to demonstrate that the Small, Type 1 Composting Area have a soil texture that meets the requirements stated in 15A NCAC 13B .1404(10)(B).
- h. The permittee shall completely construct and install all required and approved measures, devices, and structures to prevent soil erosion, control sedimentation, manage surface water drainage, and to protect surface waterbody in accordance with 15A NCAC 13B .0542(k) & (l), .1406(2), (3), & (4) and the approved operations plans (Document No. 8, Attachment I, Part II).
- i. 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 PTO, in accordance with 15A NCAC 13B .0546 & .0547(2) and the additional three (3) million dollars for to cover costs for potential assessment and corrective action at the facility in accordance with NCGS 130A-295.2(h).

- End of Section -

ATTACHMENT 3 CONDITIONS OF OPERATING PERMIT

PART I: OPERATING CONDITIONS

1. The Permit to Operate for Phases 1 & 2 and the other miscellaneous solid waste management units shall expire January 25, 2016. Pursuant to Rule 15A NCAC 13B .0201(g), no later than **July 25, 2015 (6 months)**, the permittee must submit a request to the Section for a permit review and must update pertinent facility plans including, but not limited to, the facility operation and waste screening plans in accordance with Rule 15A NCAC 13B .0535.
2. This permit approves the operation of the Phases 1 & 2 of the C&DLF, the other miscellaneous solid waste management units, 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.
3. The C&DLF is permitted to receive the following waste types for disposal:
 - 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).
4. Regulated-asbestos containing material as defined in 40 CFR 61 must be managed in accordance with 40 CFR 61. Disposal of asbestos waste must be in accordance with Rule 15 NCAC 13B .0542 (c) or the approved operations plan (Document No. 8, Attachment I, Part II).
5. Those wastes listed in Rule 15A NCAC 13B .0542 (e) must not be accepted for disposal, including, but not limited to, hazardous waste, municipal solid waste (MSW), liquid waste, commercial or industrial wastes, and yard trash.

6. Yard trash as defined in G.S. 130A-290(a)(45) shall not be disposed in the C&DLF. However, yard trash, along with land-cleaning debris and wooden pallets, may be accepted for processing in the Wood Processing and Mulch Composite Unit.
7. 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.
8. The following table lists the dimensions and details for the C&DLF, both existing and planned. Total gross capacity is defined as the volume measured from the bottom of waste through the top of final cover. The approved fill elevation that is consistent with the final contours and 4 (horizontal) to 1 (vertical) side slopes as shown on Figure No. 4 and Drawing No. C3 is up to the elevation of 150 feet above mean sea level. The remaining service life of the C&DLF is approximately 7.1 years from April 2010, as stated in Attachment 1, Part II, Document No. 8.

C&D Landfill Unit	Area (acres)	Gross Capacity (cubic yards)	Estimate Service Life (year)	Status
Phase 1, Cell 1 through 3 (filled through August 26, 2008)	10.5	187,000	-	Filled
Phase 2	(vertical expansion)	134,600	5	To be filled
Phase 3	(vertical expansion)	111,960	2.1	Not developed
Total	10.5	433,560	7.1	

9. This facility is permitted to receive solid waste generated within Wilson County consistent with the resolution passed by the Wilson County Commissioners on November 4, 2002.
10. The facility is approved to accept wastes at a rate of 20,000 tons per year consistent with the resolution passed by the Wilson County Commissioners on November 4, 2002. Maximum variance shall be in accordance with NCGS 130A-294(b1)(1).
11. 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.
12. 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 unit in accordance with NCGS 130A-309.25 and addressed by memorandum dated November 29, 2000.
13. The permittee must actively employ a training and screening program at the facility prepared in accordance with Rule 15A NCAC 13B .0544(e) and the approved Operations Plan (Attachment 1, Part II, Document No. 8) 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.
14. The use of alternative periodic cover requires approval, prior to implementation, by the Section. Requests for alternative periodic cover approval must include a plan detailing the comprehensive use and a demonstration of the effectiveness of the alternative cover, developed according to Section guidelines. Plans that are approved by the Section will be incorporated into, and made a part of, the approved documents listed in Attachment 1.
15. The permittee must maintain permanent markers that accurately identify the edge of the approved waste disposal boundary.

16. The permittee must conduct a monthly inspection at the C&DLF for erosion, leachate seepage, and adequate cover conditions over the exposed waste or seep according to the approved Operations Plan in Document No. 8 (refer to Attachment 1, Part II). At least one foot of additional soil shall be added to patch any isolated leachate seeps.
17. The permittee must conduct a routine inspection for the identified leachate seepage areas at the C&DLF which have been documented on the maps and identified in the field by staking/flagging with identifications. The routine inspection must be conducted weekly and following storm events greater than one-inch daily observed. All inspection and maintenance records must be placed in the operating records.
18. Financial assurance must be continuously maintained for the duration of the facility in accordance with Rules 15A NCAC 13B .0546, .0547 (2)(b), 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).
19. 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.
20. 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.
21. Modifications to the approved sedimentation and erosion control activities require approval by the North Carolina Land Quality Section. The Section must be notified of any sedimentation and erosion control plan modifications.

PART II: MONITORING AND REPORTING REQUIREMENTS

22. Groundwater and surface water monitoring must be conducted in compliance with Rules 15A NCAC 13B .0544, 0601 & .0602, and the approved monitoring plan (Attachment 1, Part II, Document No 8, Doc ID 12737). 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 15A NCAC 13B .0545. Surface water is subject to 15A NCAC 2B – Surface Water and Wetlands Standards.

24. A total of four (4) ground water wells (GMW-1- through GMW-4) comprise the approved groundwater monitoring network for the C&DLF, unless otherwise specified by the Section.
- 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 must be surveyed in accordance with Rule 15A NCAC 13B .0544 (b)(1)(F).
 - d. Each groundwater monitoring well must have an identification plate permanently attached to the well, in accordance with Rule 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, 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, 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 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 semi-annually unless otherwise specified by the Section. Water samples must be analyzed for constituents listed in

Appendices I of 40 CFR Part 258, cobalt, mercury, chloride, manganese, sulfate, iron, specific conductance, pH, temperature, alkalinity, and total dissolved solids according to the approved Monitoring Plan (Doc ID 12737). 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 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 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. a completed Solid Waste Environment Monitoring Data Form, and
 - d. laboratory data submitted in accordance with the EDD Template.
27. All groundwater 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.

LANDFILL GAS MONITORING REQUIREMENTS

29. Landfill gas monitoring must be conducted at the facility in accordance with the approved landfill gas monitoring plan (Doc ID 12737) and Rule 15A NCAC 13B .0544(d). The permittee must sample landfill gas quarterly unless otherwise required for corrective action or specified by the Section.
30. A total of three (3) landfill gas probes (GP-1 through GP-3) comprise the approved monitoring network for the C&DLF (Attachment 1, Part II, Document No. 8, Doc ID 12737), 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.
31. All landfill gas monitoring must be conducted by properly trained personnel. Monitoring methane and other explosive gases must include interior monitoring of onsite buildings.
32. Pursuant to Rule 15A NCAC 13B .0542 (n), the permittee must keep landfill gas monitoring reports and records to the facility's operating record within 7 days of the monitoring event, and the reports and records 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.
33. 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 Rule 15A NCAC 13B .0544(d)(3).

REPORTING REQUIREMENTS

34. 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.

35. 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.

36. 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 September 17, 2004 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 III: CLOSURE AND POST-CLOSURE

- 37. The permittee must conduct closure and post-closure activities in accordance with the approved plans (Attachment 1, Part II, Document Nos. 7 & 8) and Rules 15A NCAC 13B .0543 and .0547(2)(a).
- 38. The modification of the approved closure plan to construct an alternative cap system is allowed by Rule 15A NCAC 13B .0543; the modified closure plan must be submitted for approval at least ninety (90) days prior to closure or partial closure of any landfill unit. The plan must include all steps and measures necessary to close and maintain the 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 Rule 15 NCAC 13B .0543(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.

PART IV: MISCELLANEOUS SOLID WASTE MANAGEMENT UNIT SPECIFIC CONDITIONS

GENERAL CONDITIONS

- 39. The Miscellaneous Solid Waste Management Units, as described in the following Permit Conditions are permitted to receive wastes from Wilson County. Received wastes and recyclable product shall be stored, stockpiled, or disposed in the designated areas as shown on Drawing No. S1/Sheet No. 1 in the approved Facility Plan (Attachment 1, Part II, Document No 8). The permittee must obtain Section approval before re-locating any of these operations or revising the operations.
- 40. The permittee shall operate and manage each unit in accordance with the approved operations plans (Doc ID 12737), Erosion and Sediment Control Plan approved by the by the NCDENR, Division of Land Resources, Land Quality Section on December 07, 2009, and all applicable statutes and rules of the State of North Carolina. Any revisions to the approved plan shall be approved by the Section, prior to implementation.

41. 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.
42. 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 is deemed to be leachate and shall be contained on-site or properly treated prior to discharge.
43. 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.
44. 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.
45. Effective vector control measures shall be applied as necessary to control flies, rodents, insects, and vermin.

OPERATIONAL CONDITIONS – CONVENIENCE CENTER

46. The Convenience Center is permitted to receive municipal solid wastes (MSW) and recycled materials.
47. Each received wastes must be temporarily stored in the designated containers in accordance with the wastes types. A proper isle spaces between waste containers - drums and/or roll-off boxes must be maintained all the time for inspection, firefighting, and container removal.
48. No mixing waste is allowed. Visible label/ signage identified the collected wastes must be posted on the containers.
49. The permittee must dispose of the received MSW when the containers are filled, after weighted by the scale, at the Waste Industries Black Creek Transfer Facility – Solid Waste Permit Number 98-08T.

OPERATIONAL CONDITIONS – TIRE COLLECTION AREA

50. The facility located inside the Convenience Center is permitted to receive tires and scrap tires as defined in NCGS Article 9, Chapter 130A-309.53(6) & (7) and must temporary store the used tires in two 18-wheel trailers.

51. The permittee shall operate and manage the tire collection area in accordance with the requirements of Rule 15A NCAC 13B .1107 and the approved operations plan (Attachment 1, Part II, Document No. 8). Any revisions to the approved plan shall be approved by the Section, prior to implementation.
52. The permittee shall remove the tires monthly by utilizing a register contractor/hauler in accordance with the requirements of Rule 15A NCAC 13B .1112. The contractor information must be placed in the operating records

OPERATIONAL CONDITIONS – WOOD PROCESSING AND YRAD TRASH
COMPOSTING AREA

53. The Wood Processing Area is permitted to operate a treatment and processing facility as defined in Rule 15A NCAC 13B .0101(49) and is up to 4.5-acre in size. An adjacent composting area is classified as the Small, Type 1 Composting Facility according to Rule 15A NCAC 13B .1402(f)(6). The detail layouts of the facilities are shown on Figure No. 2 (Document No. 8, Attachment 1, Part 2).
54. The facilities are permitted to accept the following waste streams up to 6,000 cubic yard (untreated/unprocessed raw material) per quarter:
 - a. Selected and clearing wastes, as defined in Rule 15A NCAC 13B .0101(21) with less than two (2) feet diameter;
 - b. Yard trash as defined in NCGS 130A-290 (a)(14)
 - c. Yard waste as defined in Rule 15A NCAC 13B .0101(56);
 - d. Wooden pallets as defined in NCGS 130A-290 (a)(44a); and
 - e. Other organic wastes listed in the operations plan for the facilities (Document 8, Attachment 1, Part II).
55. The permittee must conduct random waste screening processes according to the approved operations plan (Document 8, Attachment 1, Part II) to ensure that prohibited wastes are identified and removed to designated areas (either at on-site or off-site facilities) for properly disposal.
56. The Wood Processing Area is permitted to process approximately 2,000 tons per quarter, and the Yard Trash Composting Area is permitted to process or store less than 6,000 cubic yard according to Rule 15A NCAC 13B .1402(f)(6).
57. Commingling interim stage processed material – wood chips, mulch, and top soil from the Wood Processing Area and yard trash from Yard Trash Composting Area is prohibited. However, the residual wood fines generated from chipping/grinding

processes in the Wood Processing Area will be allowed to combine and mix yard trash for composting.

58. The permittee must manage the temporary storage and processing by grinding at the time for off-site hauling according to the operations plan included in Attachment 1, Part II, Document No. 8. Any revisions to the approved plan shall be approved by the Section, prior to implementation.
59. The permittee must operate the Yard Trash Composting Area according to Rule 15A NCAC 13B .1406 and comply the pathogen reduction and vector attraction reduction requirements.
60. The permittee must maintain the dimensions of the storage piles /stockpiles and the minimum of 25-feet horizontal separation distance between stockpiles as specified in the approved operations plan and as shown on Figure No. 2.

OPERATIONAL CONDITIONS – WHITE GOODS AND SCRAP METAL STAGING AREA

61. The area is permitted to receive and temporary store white goods as defined in NCGS 130A-290(44) and scrap metal on an approximately 0.5-acre all- weather surface in the designated area, which has a maximum storage capacity of approximately 2,000 ton at any time as shown on Figure No. 2 (Attachment 1, Part II, Document No. 8).
62. The permittee must operate and manage white goods according to the approved plan (Attachment 1, Part II, Document No. 8). Any revisions to the approved plan shall be approved by the Section, prior to implementation.
63. Any whit goods with refrigeration units must be separated from other white goods without refrigeration units and scrap metals at this collection/staging area. The permittee must hire the contractor who can properly remove chlorofluorocarbon refrigerants from white goods. The recyclable metals shall be removed out of the permitted landfill facility monthly.

OPERATIONAL CONDITIONS – INERT DEBRIS DISPOSAL AREA

64. The area encompassing less than two (2) acres as shown on Sheet No. 1/Drawing No. S1 and Figure No. 5 is permitted to receive inert debris, as defined in NCGS Article 9, Chapter 130A-290(a)(14), which is segregated from the C&D wastes stream and recycled and used as beneficial fill.

65. The approved fill elevation that is consistent with the final contours and approximately 4 (horizontal) to 1 (vertical) side slopes as shown on Figure No. 5 (Attachment 1, Part II, Document No. 8) is up to the elevation of 108 feet above mean sea level.
66. This area shall be operated and managed in accordance with the requirements of Rule 15A NCAC 13B .0566 and the approved operations plan included in Document No. 8 (Attachment 1, Part II). Any revisions to the approved plan shall be approved by the Section, prior to implementation.
67. A minimum of six-inch-thick soil cover shall be applied monthly, or when the active area reaches one acres in size, whichever occurs first.
68. The permittee must maintain permanent markers that accurately identify the edge of the approved waste disposal boundary.

OPERATIONAL CONDITIONS – ASBESTOS WASTE DISPOSAL AREA

69. Asbestos waste as defined in 40 CFR 61 is permitted to be received and disposed at the designated area located in the immediate south end of the Inert Debris Disposal Area as shown on Sheet No. 1/Drawing No. S1 and Figure No. 5.
70. Disposal of asbestos waste must be in accordance with Rule 15 NCAC 13B .0542 (c) or the approved operations plan (Document No. 8, Attachment I, Part II).
71. A minimum of six-inch-thick soil cover shall be applied and compacted to properly cover the waste at the end of each operation day or at least once every 24-hour period if the unit is approved by the Section for a continuous operation. Cover must be placed at more frequency intervals if necessary to control soil erosion and to prevent potential exposure of waste to the environment and workers.
72. The permittee must maintain permanent markers that will identify the edge of the approved waste disposal boundary and post warning signage according to the approved operations plan and requirements stated in 40 CFR 61.

- End of Permit Conditions -