NCDENR
North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director | Division of Waste Management | Michael F. Easley, Governor
William G. Ross Jr., Secretary

September 17, 2004

Mr. Steve Clayton, Director
Wilson County Solid Waste Management
P.O. Box 1728
Wilson, North Carolina 27894

Fac/Perm/Co ID #	Date	Doc ID#
98-09	12/22/2010	DIN 12569

Subject: Solid Waste Permit No. 98-09: Permit to Operate Phase 1/Cell 1
Wilson County Westside Construction and Demolition(C&D) Landfill
City of Wilson, Wilson County, North Carolina.

Dear Mr. Clayton:

The referenced PERMIT TO OPERATE is issued in accordance with N.C.G.S. 130A-294 and the N.C. Solid Waste Management Rules, 15A NCAC 13B, .0201(b)(1). Enclosed is attachment 1, which lists documents included in the Approved Plan. The approved facility description includes the area described in the attached legal description. Within the approved facility, the initial area identified as Phase I/CELL 1 (the first subcell of the five year phase encompassing 10.50 acres) is permitted for operation as shown on Drawing C-2 (Phase 1 Operations Plan).

This permit is for the operation of Phase I/CELL 1 (the first subcell of the five year phase encompassing 10.50 acres) as shown on Drawing C-2 (Phase I Operation Plan, dated 1 September 2004 of the approved plans, as part of the permit submittal document dated August 2004, revised September 2004 and received 3 September 2004. At the end of the first five-year operational period, Wilson County may apply for an expansion into and construction of Phase 2, but will be subject to all rules in effect at that time. This permit is issued to Wilson County as the owner and operator of the facility.

Please refer to the GENERAL CONDITIONS of this permit for recordation procedures, the definition of the approved plan, and for general terms of the Solid Waste Permit.

The CONSTRUCTION AND OPERATION conditions describe permitted fill areas, acceptable waste types, landfill operation, and requirements which must be satisfied prior to operation of the facility as a Construction & Demolition landfill. Specific requirements for groundwater monitoring and facility record keeping and reporting are described in the MONITORING AND REPORTING conditions.

Please review the Conditions of Permit thoroughly, especially the following specific conditions:

A. Monitoring and Reporting Requirement No. 14(e) requires that the groundwater quality monitoring wells must be installed and sampled prior to accepting waste at this landfill. Please consult with Ms. Ellen Lorscheider, Solid Waste Section Project Hydrogeologist at (919) 733-0692, Ext. 345 just prior to well construction to help ensure that completed wells meet well construction standards and will be acceptable for monitoring purposes.

Again, please review the Conditions of Permit thoroughly and contact me if you have any questions or if you require further clarification. Mr. Ben Barnes is the Solid Waste Section Waste Management Specialist for this area and can be contacted at the DENR Raleigh Regional Office by phone at (919) 571-4700 and Jim Barber can be contacted at (919) 733-0692 Extension 255.

Respectfully,

Jim Barber
Permitting Branch Supervisor
Solid Waste Section
enclosure
cc: Mark Poindexter
Ben Barnes
Ellen Lorscheider
Raleigh Central File: Wilson County; 98-09 Permit File
Gary Ahlberg

PERMIT NO.: 98-09
DATE ISSUED(PTO/PHASE 1/CELL 1):09/17/04

STATE OF NORTH CAROLINA

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

DIVISION OF WASTE MANAGEMENT

1646 MAIL SERVICE CENTER; RALEIGH, NC 27699-1646

SOLID WASTE PERMIT

WILSON COUNTY WESTSIDE CONSTRUCTION AND DEMOLITION LANDFILL

is hereby issued a PERMIT TO OPERATE a

Construction and Demolition Landfill unit, PHASE 1 (CELL 1)

located adjacent to the closed Wilson County MSW landfill and accessed from 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 of the site included with this permit and further identified on the plat recorded for this property in Plat Book: 32 and Page: 13 in the Wilson County Register of Deeds for the County of Wilson.

James C Coffey

James C. Coffey
Section Chief
Solid Waste Section
Division of Waste Management

PERMIT NUMBER: 98-09
DATE ISSUED(pto/phase 1/cell1):09/17/04

SOLID WASTE PERMIT
PERMIT TO OPERATE
WILSON COUNTY WESTSIDE
Construction and Demolition Debris Landfill Unit - PHASE I (Cell 1)

CONDITIONS OF PERMIT:

GENERAL

1. This PERMIT TO CONSTRUCT will be in effect for eighteen months from date of issuance and may be reviewed under rules in effect at that time if the facility is not constructed within this time frame. Modifications to the facility may be required in accordance with rules in effect at the time of review. This permit shall not be effective unless the PERMIT TO CONSTRUCT along with the certified copy is filed in the Register of Deeds Office, in the grantor index under the name of the owner of the land in the county or counties in which the land is located. This PERMIT TO CONSTRUCT should be referenced and recorded in **Plat Book: 14 Page:109.** The certified copy shall be returned to the Solid Waste Section, within 30 days of receipt of the PERMIT TO CONSTRUCT, and shall have indicated on it the book number, page, date of recordation and the Register's seal.

   When this property is sold, leased, transferred or conveyed, 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 sanitary landfill.

2. The approved plan is described by Attachment 1, "List of Documents for Approved Plan". Where discrepancies may exist, the most recent submittal and the Conditions of Permit shall govern. Some components of the approved plan are reiterated in the Conditions of Permit.

3. This permit is not transferable.

4. This permit is for a period of five years from the date of the PERMIT TO OPERATE, 17 September 2009, and is subject to review on or before the date of the PERMIT TO OPERATE as per 15A NCAC 13B .0201(c). Modifications to the facility may be required, and additional information submitted, in accordance with the rules in effect at the time of the review.

5. The service area for this facility consists of Wilson County, consistent with the resolution by the Wilson County Board of Commissioners on 4 November 2002. The disposal capacity for PHASE 1 is approximately 100,000 tons (page 2-1, section 2.1 - Facility Description) consistent with the final contours as shown on Drawing No. C-2 and D1in the construction application. This capacity is based the receipt of 20,000 tons/year, with a maximum variance in accordance with GS 130A-294(b1)(1) and consistent with the approved resolution by the Wilson County Commissioners dated 4 November 2002.

CONSTRUCTION

6. This permit is for the operation of the Wilson County Westside Construction and Demolition(C&D) Landfill unit denoted as Phase 1/Cell 1 in accordance with Drawing No. C-2 and D1. Prior to placing waste in other areas of Phase 1(Cells 2 & 3, consistent with the above mentioned drawings, certification that Phase 1 (and/or sub-cells) has been constructed and graded in accordance with the approved plans will be required.

7. All sedimentation/erosion control activities will be conducted in accordance with the Sedimentation Control Act codified at 15 NCAC 4 and consistent with local, delegated programs. Native vegetation shall be established on the completed C&D landfill unit in accordance with 15A NCAC 13B .0505 (3)(b)(c).

PRE-OPERATION

8. The following requirements shall be met prior to operation of PHASE 1(i.e. Prior to the issuance of a PERMIT TO OPERATE for Cell 2 and Cell 3):
   a. PHASE 1 preparation shall be in accordance with the construction plan, Drawing C1 and D1, and the conditions specified herein; and construction of PHASE 1 shall be certified by the design engineer to be constructed in accordance with the approved plans.
   b. PHASE 1 unit inspection shall be made by a representative of the Division of Waste Management (DWM) with the owner/operator.
   c. Signs shall be posted at the entrance of the Wilson County landfill, in accordance with the Access and Safety Requirements under Operation Condition .0505(8).
   d. Groundwater monitoring wells (see Monitoring and Reporting Requirements) shall be installed consistent with condition 14(a) thru (g). A baseline sampling for water quality shall be performed. Well construction records, soil boring logs and sample analysis results shall be submitted to the Section Hydrogeologist for review and approval prior to operation of the C&D unit.
   e. Inspection and certification of the PHASE 1 subgrade, by the project hydrogeologist, to determine if subgrade conditions are consistent with the observations made during the initial site investigations and information provided in the site hydrogeology. Contact the Solid Waste Section hydrogeologist to schedule this site visit to discuss and determine the final monitoring system, groundwater and surface water locations, for the facility.
   f. No blasting shall take place on the site unless a pre-blast survey is performed and a blasting plan is submitted to the Solid Waste Section for review and concurrence.

g. All well construction records and soil boring logs(for existing and new wells), along with sample analysis results shall be submitted to the Section Hydrogeologist for review and approval prior to operation of the C&D unit.

h. If soils are to be excavated from the bio-solids land application area and stockpiled for operational use at the facility; then a management plan shall be submitted detailing the handling of these soils prior to use. A location drawing shall be submitted indicating the location of stockpile areas, with buffers to wetlands/streams/ponds/property lines and on-site wells, at a minimum.

OPERATION:

9. This C&D unit, PHASE 1/Cell1 is permitted to receive the following waste types:
   a. Land-clearing debris as defined in G.S. 130A-290, specifically, solid waste which is generated solely from land-clearing activities, such as stumps, trees;
   b. Inert debris defined as solid waste which consists solely of material that is virtually inert, such as brick, concrete, rock and clean soil; and
   c. Asphalt in accordance with G.S. 130-294(m).
   d. Construction and demolition debris defined as solid waste resulting solely from construction, remodeling, repair or demolition operations on pavement, buildings, or other structures.

   Yard trash as defined in G.S. 130A-290, shall not be disposed in the landfill area. However, yard trash, along with land-clearing debris, may be accepted for processing in the Yard Waste Composting Area or disposed of in a LCID landfill.

10. Operation of the C&D landfill unit shall conform to the operating procedures described in the approved plan, in accordance with Section .0505 of the Solid Waste Management Rules, and in accordance with the following requirements: Waste Acceptance and Disposal.

    a. The C&D unit shall accept only those solid wastes which it is permitted to receive as outlined in condition 9.
    b. No municipal solid waste, hazardous waste, or liquid waste shall be accepted for disposal in the C&D unit.
    c. The permittee shall implement a program for the C&D unit for detecting and preventing the disposal of MSW, hazardous or liquid wastes. The program shall include, at a minimum:
       (I) Random inspections of incoming loads or other comparable procedures:
       (ii) Records of any inspections shall be made available upon request;
       (iii) Training of personnel to recognize hazardous and liquid wastes;
       (iv) Development of a contingency plan to properly manage any identified hazardous, liquid or MSW wastes; The plan must address identification, removal, storage, and final disposition of waste.

Cover Material Requirements

d. Operational soil cover of at least six inches shall be placed at least once per week or when the active area reaches ½ acre in size, or more often as necessitated by the nature of the waste, as to prevent the site from becoming a visual nuisance and to prevent fire, windblown materials, vectors, or excessive water infiltration.

e. Areas which will not have additional waste placed on them for 12 months or more, but where final termination of operations has not occurred, shall be covered with a minimum of one foot of soil cover [15A NCAC 13B .0505(3)(b)].

f. After final termination of disposal operations at the C&D unit or major part thereof, or upon revocation of a permit, the fill areas shall be covered with at least two feet of suitable compacted earth [15A NCAC 13B .0505(3)(c)] or a cap as specified by the rules in effect at the time of closure.

Access and Safety

g. The C&D unit shall be adequately secured by means of gates, chains, berms, fences, or other security measures approved by the DWM to prevent unauthorized entry.

h. An attendant shall be on duty at the Wilson County landfill at all times while it is open for public use to ensure compliance with operational requirements.

I. The access road from S.R. 1503 to the C&D unit shall be of all-weather construction and maintained in good condition.

j. Dust control measures shall be implemented when necessary.

k. Signs providing information on dumping procedures, the hours of operation, the permit number, and other pertinent information shall be posted at the entrance to the Wilson County landfill.

l. Signs shall be posted stating that no MSW, hazardous waste or liquid waste can be received in the C&D unit.

m. Traffic signs or markers shall be provided as necessary to promote an orderly traffic pattern to and from the discharge area and to maintain efficient operating conditions.

n. The removal of solid waste from the facility is prohibited unless the owner/operator approves and the removal is not performed on the working face.

o. Barrels and drums shall not be disposed of unless they are empty and perforated sufficiently to ensure that no liquid or hazardous waste is contained therein, except fiber drums containing asbestos. Asbestos waste shall be managed in accordance with 40 CFR 61.

p. Open burning of solid waste is prohibited. Fires shall be reported to the Solid Waste Section by phone within 24 hours of an incident and written notification shall be submitted within 14 working days addressing the events at the site and future actions to be taken in the future to avoid and or mitigate potential fire hazards.

q. The concentration of explosive gases generated by the C&D unit shall not exceed:
   I. twenty-five percent of the lower explosive limit(1.25% of CH4) for gases in site structures (excluding gas control or recovery system components if necessary; and
   ii. One hundred percent of the lower explosive limit(5% CH4) for gases at the property boundary. Installation of permanent gas monitoring wells may be required in the future to demonstrate compliance.

Erosion and Sedimentation Control

r. Adequate sedimentation and erosion control measures shall be practiced to prevent silt from leaving the site of the C&D unit.

s. Adequate sedimentation and erosion control measures shall be practiced to prevent excessive on-site erosion.

t. 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&D landfill unit development or as addressed in the approved Sedimentation and Erosion Control permit.

Drainage Control and Water Protection Requirements

u. Surface water shall be diverted from the operational area.

v. Surface water shall not be impounded over or in waste.

w. A separation distance of at least four feet shall be maintained between the C&D waste and the groundwater table; as addressed in the site suitability application, hydrologic assessment section.

x. Solid waste(C&D) shall not be disposed of in water.

y. Leachate shall be contained on site or properly treated prior to discharge. An NPDES permit may be required prior to discharge of leachate to surface waters and or for land disturbing activities greater than one acre.

11. All pertinent landfill operating personnel will receive training and supervision necessary to properly operate this C&D landfill unit in accordance with G.S. 130A-309.25 and addressed by memorandum dated 29 November 2000(enclosed). During operating hours a certified landfill operator shall be on-site.

12. Ground water quality for the C&D landfill unit is subject to the classification and remedial action provisions referenced in Rule .0503 (2)(d) of 15A NCAC 13B.

13. A closure and post-closure plan must be submitted for approval at least 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&D unit in accordance with all rules in effect at that time. At a minimum, the plan shall address the following:

a. Design of a final cover system as required by the solid waste management rules in effect at the time of closure;

b. Construction and maintenance/operation of the final cover system and erosion control structures;

c. Surface water, ground water, and explosive gas monitoring.

MONITORING AND REPORTING REQUIREMENTS

14. Ground-water monitoring wells and monitoring requirements for the C&D landfill unit:

a. Monitoring well design and construction shall conform to the specifications outlined in, "North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities-DRAFT" and water quality sampling and analysis shall be done in accordance with Construction and Demolition landfills and Closed Sanitary Landfills.

b. A total of four locations for ground water wells GMW-1(up-gradient) and GMW-2, GMW-3 and GMW-4(down-gradient locations for Phase I)in a. accordance with the Groundwater Monitoring Plan. **See condition 8(e).**

c. A geologist shall be in the field to supervise well installation. The exact locations, screened intervals, and nesting of the wells shall be established after consultation with the SWS Hydrogeologist at the time of well installation.

d. For each monitoring well constructed, a well completion record shall be submitted to DWM within 30 days upon completion.

e. Prior to the acceptance of any waste at the C&D unit, a baseline sampling event shall be completed and analysis submitted to the SWS Hydrogeologist.

f. Sampling equipment, procedures, and parameters shall conform to specifications outlined in the above-referenced guidance document,[Monitoring and Reporting Requirements, condition 14(a) pg. 9] or the current guidelines established by DWM at the time of sampling.

g. In order to determine ground-water flow directions and rates, each monitoring well shall be surveyed, and hydraulic conductivity values and effective porosity values shall be established for the screened intervals for each monitoring well.

h. The permittee shall sample the monitoring wells semi-annually or as directed by the SWS Hydrogeologist. In addition to the wells described in condition 14(b).

I. A readily accessible unobstructed path shall be initially cleared and maintained so that four-wheel drive vehicles may access the monitoring wells at all times.

15. The permittee shall maintain a record of all monitoring events and analytical data. Reports of the analytical data for each water quality monitoring sampling event shall be submitted to DWM in a timely manner.

16. The permittee shall maintain a record of the amount of solid waste received at the C&D unit, compiled on a monthly basis. Scales shall be used to weigh the amount of waste received.

17. On or before 01 August 2005, and each year thereafter, the permittee shall report the amount of waste received (in tons) at the C&D unit and disposed of in the C&D landfill unit to the Solid Waste Section and to all counties from which waste was accepted, on forms prescribed by the Section. This report shall include the following information:
    a. The reporting period shall be for the previous year, beginning 01 July and ending on 30 June;
    b. The amount of waste received and landfilled in tons, compiled on a monthly basis, and;
    c. Documentation that a copy of the report has been forwarded to all counties from which waste was accepted.
    d. The owner or operator of a solid waste management facility shall not knowingly dispose of any type or form of solid waste that is generated within the boundaries of a unit of local government that by ordinance:
        i. Prohibits generators or collectors of solid waste from disposing of that type or form of solid waste.
        ii. Requires generators or collectors of solid waste to recycle that type or form solid waste.

18. All records shall be maintained on-site and made available to the SWS upon request, specifically records generated by conditions 10, 11, 13, 14, 15, 16 & 17.

ATTACHMENTS
WILSON COUNTY WESTSIDE C&D LANDFILL
List of Documents for the Approved Plan

SITE SUITABILITY:

1. Volume One - Site Application - WILSON COUNTY WESTSIDE C&D LANDFILL FACILITY application dated 11 December 2003 and received 12 December 2003 from Gary W. Ahlberg, P.E. with map set dated 10 July 2003.

CONSTRUCTION:

2. Construction Plan application for Wilson County Westside C&D Landfill Facility, dated 2 September 2004, received 3 September 2004.

3. Well abandonment recorded dated 7 June 2004 from Carolina Drilling addressing the abandonment of piezometer P-105;

4. Erosion and Sedimentation Control Plan approval letter dated 19 March 1990 by Division of Land Resources;

5. Certification letter dated XX XXXXXX 200X from Gary Ahlberg addressing the construction of Phase 1, Cells 2 and 3 related infrastructure.