



City of Winston-Salem
Old Salisbury Road CDLF
Facility Permit No: 34-12
Permit to Operate C&D Landfill
February 6, 2008
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Doc Id No 3707

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

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

**MUNICIPAL SOLID WASTE FACILITY
PERMIT NO. 34-12**

**THE City of Winston-Salem (Owner) and
City/County Utility Commission (Operator)**
are hereby issued a
Permit to Operate

Old Salisbury Road Landfill Construction and Demolition Landfill Facility
Phase V

located on Old Salisbury Road in Forsyth 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 found in the approved application.

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

ATTACHMENT 3

Part A Permitting History

Permit Type	Date Issued
Permit to Operate Phase I	3 July 1996
Amendment 1 Permit to Construct Phase II	15 October 1999
Amendment 2 PTO Phase II	7 February 2000
Amendment 3 PTC Phase III	2 August 2000
Amendment 4 PTO Phase III	25 April 2001
Amendment 5 PTC and PTO Vertical Expansion over Phases I-III	17 April 2003
Amendment 6 PTC Phases IV, V, and VI	28 May 2004
Amendment 7 PTO for Phase IV	7 October 2004
Amendment 8 PTO for Phase V	February 8, 2008

Part B List of Documents for the Approved Facility Plan

1. Site Plan Application; submitted by HDR Engineering, Inc. April, 1995
2. Construction Plan Application; submitted by HDR Engineering, Inc. June, 1995
3. Legal Description of the Facility
4. Letter dated 17 June 1997 submitted to the Section by HDR Engineering, Inc. certifying the western-half of Phase 1A.
5. Letter dated 12 January 1998 submitted to the Section by HDR Engineering, Inc. providing Certification No.3 for Phase I.
6. Letter dated 1 April 1998 submitted to the Section by HDR Engineering, Inc. providing Certification No. 4 for the Phase 1 Area.
7. Letter dated 30 July 1998 submitted to the Section by HDR Engineering, Inc. providing Certification No. 5 for the Phase 1 Area.
8. Construction Plan Application Phase II & III; submitted by HDR Engineering, Inc. April 1999
9. Letter dated 11 May 1999 submitted to the Section by HDR Engineering, Inc. providing Certification No. 6 for Phase I and II Areas.
10. Letter Dated 8 October 1999 submitted to the Section by HDR Engineering, Inc. providing amendments to the Groundwater Monitoring Plan.
11. Letter dated 30 December 1999 submitted to the Section by HDR Engineering, Inc. providing Certification No. 7 for Phase I and II Areas.
12. Letter dated 17 April 2000 submitted to the Section by HDR Engineering, Inc. providing revisions to Document #8 (Construction Plan Application, Phase II & III) for Phase III development.
13. Letter dated 1 February 2001 submitted to the Section by HDR Engineering, Inc. providing

Certification No. 8 for all of Phase III.

14. Document titled, "Old Salisbury Road Construction and Demolition Landfill, Winston- Salem, North Carolina, Construction Permit Application Phases I, II, III - Vertical Expansion." Prepared for the City of Winston-Salem City/County Utilities Commission by HDR Engineering, Inc. and dated December 2002.
15. Document titled, "Old Salisbury Road Construction and Demolition Landfill, Winston- Salem, North Carolina, Construction Permit Application Phases IV, V, and VI." Prepared for the City of Winston-Salem City/County Utilities Commission by HDR Engineering, Inc. and dated October 2002 and revised through December 2003.
16. Letter dated 20 August 2004 submitted to the Section by HDR Engineering, Inc. providing base grade Certification No. 9 for Phase IV and portions of Phase V and VI. Includes a survey drawing titled "Forsyth County Landfill, Landfill Expansion Phase IV, V, & VI, Finish Grade As-built Certification" prepared by MSS Land Consultants.
17. Letter dated 27 July 2007 submitted to the Section by HDR Engineering, Inc. providing revisions to Document #10 for Phase V and a portion of Phase VI development. (Doc. Id. Nos. 3701 and 3702)

- End of Section -

ATTACHMENT 4 CONDITIONS OF PERMIT

General Conditions

1. This permit shall expire 7 October 2009. Pursuant to 15A NCAC 13B .0201(e), no later than 7 June 2009, the permittee must submit an application for amendment or modification to the permit for review to the North Carolina Department of Environment and Natural Resources (Department), Division of Waste Management (Division), Solid Waste Section (Section). The application must be prepared in accordance with 15A NCAC 13B .0533, as applicable.
2. The person(s) to whom this permit is issued (“permittee”) are the owner(s) and operator(s) of the solid waste management facility.
3. This condition is not applicable for this permit.
4. This condition is not applicable for this 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 must be in accordance with the Solid Waste Management Rules, 15A NCAC 13B, Article 9 of the Chapter 130A of the North Carolina General Statutes (NCGS 130A-290, et seq.), the conditions contained in this permit; and the approved plan. Should the approved plan and the rules conflict, the Solid Waste Management Rules shall take precedence unless specifically addressed by permit condition.
7. This permit is issued based on the documents submitted in support of the permit application for 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 and through the issuance of a new or substantially amended permit in accordance with applicable statutes and rules.
9. The permittee is responsible for obtaining all permits and approvals necessary for the development of this project including approval from appropriate agencies for a General or Individual NPDES Stormwater Discharge Permit. Issuance of this permit does not remove the permittee’s responsibilities for compliance with any other local, state or federal rule, regulation or statute.

Permit to Operate

Pre-Operation

1. Authorization to operate the facility shall not be in effect until the permittee demonstrates to the Section that the facility has been constructed in accordance with the approved documents shown in Attachment 1.
2. In addition to the other conditions contained in this permit and the NC Solid Waste Rules, the following requirements must be met prior to the issuance of a Permit to Operate:
 - a. Site preparation must be in accordance with the approved site plan and the conditions specified herein, and construction must be certified to be constructed in accordance with the approved plans.
 - b. The permittee must arrange with a representative of the Section for a site inspection with the permittee when facility construction is complete in accordance with this permit. The permittee must demonstrate during the site inspection that the facility was constructed in accordance with this permit and approved documents.
3. Prior to operation, the permittee must acquire and maintain all other permits, licenses and authorizations necessary to properly operate the facility. All other permits, licenses and authorizations must be maintained current during the term of this Permit to Operate and subsequent Permits to Operate.
4. This permit approves the operation of Phase V, and the continued operation of Phases I, II, III and IV. Operation of any C&D landfill future phases or cells requires written approval of the Section and must be constructed in accordance with the applicable statutes and rules.
5. This facility is permitted to receive solid waste generated within the following counties: Forsyth County including the municipalities contained within Forsyth County.
6. The landfill has a total permitted disposal capacity of approximately 2,980,000 cubic yards of total gross capacity in approximately 56 acres. Total gross capacity is defined as the volume measured from the bottom of waste through the top of final cover.

Phase/Cell	Phases I through VI (Total Capacity)	Phase V (This Permit)
Size, acres	54	4
Permitted Capacity, cy	2,980,000	225,642

7. The permitted annual waste disposal rate is approximately 105,000 tons per year. This rate is approximately 350 tons per day, 6 days per week.
8. Financial assurance must be established in accordance with 15A NCAC 13B .0547 (2) and submitted to the Section by July 1, 2008. The financial assurance must be continuously maintained for the duration of the facility in accordance with the applicable rules and statutes and annually updated by November 1 of each year.

Operational Conditions

9. 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.
10. The facility operator must complete an approved operator training course in compliance with G.S. 130A-309.25.
 - a. A responsible individual certified in landfill operations must be on-site during all operating hours of the facility at all times while open for public use to ensure compliance with operational requirements.
 - b. All pertinent landfill-operating personnel must receive training and supervision necessary to properly operate the C&D landfill unit in accordance with G.S. 130A-309.25.
11. The C&D landfill units are permitted to receive the following waste types:
 - a. "Construction or demolition debris" as defined in G.S. 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 G.S. 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 G.S. 130A-290(a)(15) means solid waste that is generated solely from land-clearing activities, such as stumps and tree trunks.
 - d. "Asphalt" in accordance with G.S. 130-294(m).
12. Those wastes listed in 15A NCAC 13B .0542(e) must not be accepted for disposal including but not limited to municipal solid waste, liquid or industrial wastes, and yard trash.
13. Asbestos waste must be managed in accordance with 40 CFR 61. Disposal of asbestos waste must be in accordance with 15 NCAC 13B .0542(c).
14. The Permittee must actively employ a training and screening program at the facility prepared in accordance with Section .0544(e) for detecting and preventing the disposal of excluded or unauthorized wastes. At a minimum, the program must include:
 - a. Random inspections of incoming loads or other comparable procedures.
 - b. Records of any inspections.

- c. Training of personnel to recognize hazardous, liquid, and other excluded waste types.
 - d. Development of a contingency plan to properly manage any identified hazardous, liquid, MSW, asbestos, or other excluded or unauthorized wastes. The plan must address identification, removal, storage and final disposition of these wastes.
15. All sedimentation/erosion control activities must be conducted in accordance with the Sedimentation Control Act N.C.G.S. 113A-50, et seq., and rules promulgated there under at 15A NCAC 4.
16. 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 must address the following:
- a. Design of a final cover system in accordance with 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.

Monitoring and Reporting Requirements

17. The following are groundwater monitoring requirements for the C&D landfill facility:
- a. Groundwater and surface water monitoring locations must be established as identified in the approved plans.
 - b. The owner or operator must sample the monitoring wells semi-annually or as otherwise directed in writing by the Section Hydrogeologist.
 - c. A licensed geologist must be present to supervise the installation of groundwater monitoring wells. The exact locations, screened intervals, and nesting of the wells must be established after consultation with the SWS Hydrogeologist at the time of well installation.
 - d. All well construction records and soil boring logs for new wells must be submitted to the Section Hydrogeologist for review within 30 days of completion.
18. 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.
19. The owner or operator must maintain a record of the amount of solid waste received at the C&D units compiled on a monthly basis. Scales must be used to weigh the amount of waste received.

20. On or before August 1 of each year, 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 facility report must list the amount of waste received and landfilled in tons and be compiled:
 - i. On a monthly basis.
 - ii. By county, city or transfer station of origin.
 - iii. By specific waste type.
 - iv. By disposal location within the facility.
 - v. By diversion to alternative management facilities.
 - c. A measurement of the volume utilized in the C&D cells must be performed during the first or 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 3 July 1996 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.
 - f. The completed report must be forwarded to the 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 Environmental Senior Specialist by the date due on the prescribed annual facility report form.

- End of Permit Conditions -